



The CHEMIST AND DRUGGIST

for RETAILER - WHOLESALE - MANUFACTURER

Established 1859

28 Essex Street, Strand, London, W.C.2

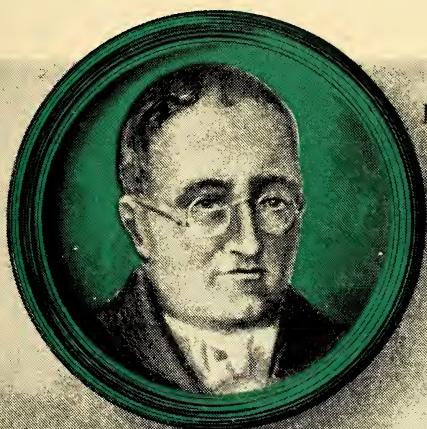
Registered as a Newspaper

3293
CXXXIX

MARCH 20, 1943

Annual Subscription (with Diary) 25/- Single Copies 9d.

INTERESTING
EVENTS



IN PHARMACY
No 18

JOHN DALTON

1766—1844

Mancunians are justly proud of their adopted son whose atomic theory enabled chemistry to make such giant strides in the following century. His fellow scientists both in Britain and France adjudged him a great gentleman free from pedantry and ostentation.

BURGOYNE BURBIDGES

Established 1741. & COMPANY LIMITED, LONDON. E.6



draw a lesson and an analogy . . .

"By their works ye shall know them"

"By their products you will judge them"

Our Output of

Euthymol

TOOTH PASTE

is strictly controlled!

Consequently :

The present abnormally increased demand for this line (far in excess of our controlled output) compels us, in turn, to ration supplies to the trade.

. . .

We are endeavouring to distribute our limited production as fairly as possible, taking into account any fluctuations in population, or local variations in purchasing power of the public.

. . .



Parke, Davis & Company, 50 Beak St., London, W.1
Inc. U.S.A. Liability Ltd

'Milton' Bulletin No. 11

'MILTON' PRODUCTS NOW AVAILABLE

From recent enquiries it appears that some confusion still exists regarding the remaining sizes of 'Milton' products following the withdrawal of others under the Control of Packaging (No. 1) Order, 1942. With a view to clarifying the matter and assisting the trade generally, we repeat below the sizes *now available*:—

RETAIL PRICES (P.A.T.A.)

Milton Antiseptic 8d. and 1/11½d. (*inc. Purchase Tax*)

Milton Denture Powder 1/3d. and 2/2d. (*inc. Purchase Tax*)

Milton Dental Cream 1/2d. (*inc. Purchase Tax*)

Milton Ointment 7d.* and 1/1½d. (*inc. Purchase Tax*)
* While stocks last

Milton Nasal Sprays 3/6d. (*Free of Purchase Tax*)

BONUS PARCELS

The allowance for a fortnight's window display of showcards of Milton Antiseptic and/or Milton Denture Powder is 5/- on a £2 order and 14/- on a £5 order.* A bonus parcel may be made up of any assortment of 'Milton' products in complete cases. Write for current price list.

* Showcards only should be used for this purpose and not the goods themselves, owing to absence of cartons at present.

Milton Antiseptic Ltd., Chapel Lane, Sands, High Wycombe, Bucks

BIOLOGICAL PREPARATIONS

THE QUALITY OF ALL MBL PRODUCTS IS ABSOLUTELY IDENTICAL WITH THAT OF PRE-WAR PREPARATION

because of our heavy purchases immediately before war broke out. Our stocks are still considerable and the high MBL standard will be fully maintained.

THERE IS NO SHORTAGE OF ANY OF OUR PREPARATIONS

				Retail Price	CHEMISTS' PRICE					
					Per unit			Per dozen		
ANTIPEOL				(Inclusive of Tax)	Net	+	Purchase Tax	Net	+	Purchase Tax
OINTMENT	4 oz. tube .. .. .	..	..	6/8½	4/2½	+	8½	50/5	+	8/5
	40 gr. " .. .. .	..	..	3/4½	2/1½	+	4½	25/3	+	4/3
	20 gr. " .. .. .	..	..	1/10½	1/2	+	2½	14/-	+	2/4
LIQUID	40 c.c. bottle .. .. .	..	..	3/4½	2/1½	+	4½	25/3	+	4/3
OPHTHALMO-ANTIPEOL										
20 gr. Nozzled tube .. .. .	..	..	..	3/4½	2/1½	+	4½	25/3	+	4/3
RHINO-ANTIPEOL										
20 gr. Nozzled tube .. .. .	..	..	..	2/9½	1/9	+	3½	21/-	+	3/6
ENTEROFAGOS (ORAL AND INJECTABLE)										
Box of 50 ampoules .. .. .	..	..	..	19/-	13/3½		None	159/7		None
" 10 " .. .. .	..	..	..	4/3	3/-		None	35/8		None
" 5 " .. .. .	..	..	..	2/6	1/9		None	21/-		None
DETENSYL										
Tin of 500 tablets .. .. .	..	..	..	39/-	24/-	+	4/-	288/-	+	48/-
Tube of 50 " .. .. .	..	..	..	4/5½	2/8½	+	5½	32/4	+	5/5
ST. JAMES' BALM										
Tin of approx. 2½ ozs. .. .. .	..	..	..	2/10	1/11	+	4	22/6	+	3/9
" " 1 oz. .. .. .	..	..	..	1/5	11	+	2	11/3	+	1/11
Tube .. .. .	..	..	..	1/2	9	+	2	9/-	+	1/6

Carriage paid on all orders of 1 dozen or £1 and over.
Terms: NETT, monthly account.

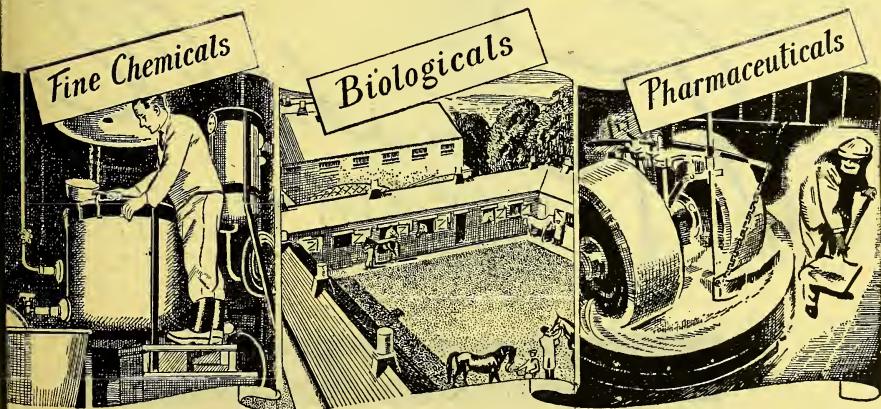
MEDICO-BIOLOGICAL LABORATORIES LTD., LONDON, S.E.25

MEDICAL **EVANS** SUPPLIES

POWDERED DRUGS
OF HIGHEST QUALITY

ground at

EVANS DRUG MILLS



VANS SONS LESCHER & WEBB LTD.

ASK YOUR
CHEMIST...



IN our press advertisements we advise women to ask their chemist for a copy of "Hygiene for Women," by Nurse Drew.

50,000 direct applications prove women are vitally interested in feminine hygiene.

If you have not a good supply of these popular booklets for counter display then you are not getting your share of the ever-growing demand for the various Rendells Products.

Why not write us today for a supply of our latest Chemist Display Aid?

Rendells
PRODUCTS

P.A.T.A.

FOR FEMININE HYGIENE

W.J. RENDELL LTD. · HARDWICK HOUSE · 161-5 ROSEBERY AVENUE · LONDON, E.C.1

FOR INSOMNIA

(A Safe, Soluble Hypnotic)

MEDINAL owes its undoubted advantage to ready solubility in water; hence it is easily absorbed and speedily excreted. Thus its effect is prompt, and elimination is complete. Sleep comes easily and the patient awakes fresh and alert. MEDINAL acts solely on the central nervous system and does not affect the cardiovascular, renal, alimentary or respiratory systems. It can therefore be safely used either orally or rectally for insomnia from any cause.

MEDINAL

'Medinal' is the registered name which distinguishes Soluble Barbitone of British Schering manufacture.

BRITISH SCHERING

BRITISH SCHERING LIMITED,
185-190, HIGH HOLBORN, LONDON, W.C.1

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The "MODERN" TEAT

ANTI-COLIC. RECOMMENDED BY HOSPITALS, DOCTORS AND NURSES

● Ball Top, one-hole perforation, ensuring constant and steady flow.

● Buffer shoulder protects baby's mouth.

● Tab enables teat to be slipped over bottle in an instant with minimum handling.



● General Resiliency MAKES IT NECESSARY FOR BABY TO WORK JAWS THERE-BY RESEMBLING THE NATURAL NIPPLE.

● Collar ensures firm grip on bottle which CANNOT BE PULLED OFF BY BABY.

● Will stand Repeated STERILISATION.

MODERN in design and must be TRIED to be appreciated.

NEAREST TO NATURAL FEEDING

The "MODERN" Teat has been specifically designed to meet the needs of both MOTHER and BABY, and—what is of vital importance in these days—it LASTS LONGER. It is hygienic, odourless and tasteless.

OBTAINABLE OF ALL WHOLESALERS

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WORTH YOUR ATTENTION! CAUSTIC PENCILS



The "NOSHOK" (Rubber Set) Practically Unbreakable
4/9 doz.



The "KRISTAL" in Glass Container
3/3 doz.

BOTH STURDY, RELIABLE AND AVAILABLE

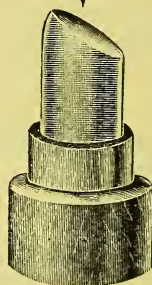
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OF ALL LEADING WHOLESALESMEN or CARRIAGE PAID DIRECT FROM
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The
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(Registered Design)
@ 10/9 doz.

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PHENSIC

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CHESTER ROAD · MANCHESTER, 16



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TRADE MARK



OF BRIGHTON

Manufacturing Chemists

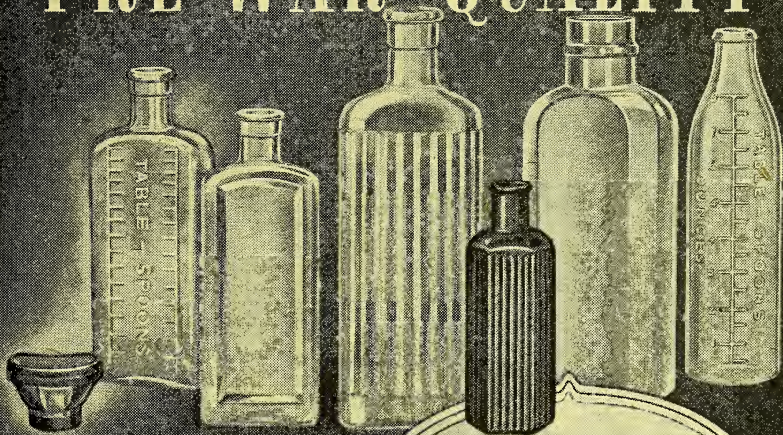
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★ To-day it is the aim of this organisation to retain the Goodwill built up over this long period by maintaining the consistently high quality of all products, and rendering the best possible service under present conditions to Pharmacists everywhere.

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*Essential Food &
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*Wholesale
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BEAUTY AIDS

On every woman's lips

National Advertising has rapidly placed Jean Claude Beauty Aids in the front rank of best-selling lines. If you have not already done so—stock up with Jean Claude Beauty Aids right away and cash in on their growing popularity. Limited stocks only are available and orders will be dealt with in strict rotation.

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'SUPER SHAVE'

for Super Sales

and for the
perfect BRUSHLESS
shave with
after-shaving
freshness!



RETAILS AT
1/10 Extra Large JAR

Trade 12/- doz. plus Pur. Tax

Send your Orders NOW to:—

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Your customers will soon be asking for this aristocrat of brushless shaving creams. Are you ready to meet the inevitable demand now being created by powerful national advertising for SUPER SHAVE?

Retailing at 1/10d. for a jar lasting 4 months, SUPER SHAVE represents SUPER VALUE plus QUALITY that merits your confident recommendation. Stock up NOW for steady, satisfactory sales.

BRUSHLESS

SUPER SHAVE

SOAPLESS

Supplies you can make

Lennard's Face Powder (Materials to Make), 7 lb. for 36/8, including tax per colour.

Lennard's Talcum Powder (Materials to Make), 7 lb. for 15/10, including tax.

Lennard's Liquid Stocking (Materials to Make), 7 lb. coloured powder, ready for adding water, for 15/10, including tax. Manufacturing information available.

Leg Tan. By adding water to Chocolate Brown water soluble colour, etc. (Colour, 1/3 per oz.)

Bath Salts. By adding colour and perfume to pea-sized soda crystals. Price of crystals, 16/6 cwt. plus 3/6 carriage.

Hair Cream. By breaking down Gum Tragacanth or Gum Karaya and mixing with water, colour and perfume.

Perfume for Re-sale. Our 9/7 series (including tax) recommended after diluting.

OTHER SUPPLIES

Pulv. Gum Trag. and **Gum Karaya No. 1.** Various qualities.

Compound Perfume. Spirit, Water and Oil Soluble. 2/6, 4/6 and 5/9 per oz., plus 66 2/3% Purchase Tax. Minimum half-ounce.

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Emulsifying Wax. Some supplies available at 12/- lb. carr. paid 5 lb. or over.

Specialists in Perfumery Labels and Seals. Attractive Designs, minimum 250 of type. Samples etc., 3d.

Face Powder Boxes (Cellophanned windowed). 1-oz. size, sample, 6d.; 9 doz. lots, 21/6; 3 gross lots, 26/- per gross. Reduction for quantity.

Raw Materials Available. White Beeswax and Substitute, Wool Wax, Precipitated Chalk, Zinc Oxide, Zinc Stearate, Magnesium Carbonate, Magnesium Stearate, Kaolin, '880 Liquid Ammonia, White Distilled Stearine, Stearic Acid.

Sanitary Towels

Size "0," 11/8; Size "1," 13/2

Size "2," 16/10; Size "3," 21/11
per gross Towels. Packed Dozens.

Price Lists charged 3d. Send addressed envelope.

LENNARD LEE-NARVILL & COMPANY
Lee-Narvill Laboratories, Hull, Yorks

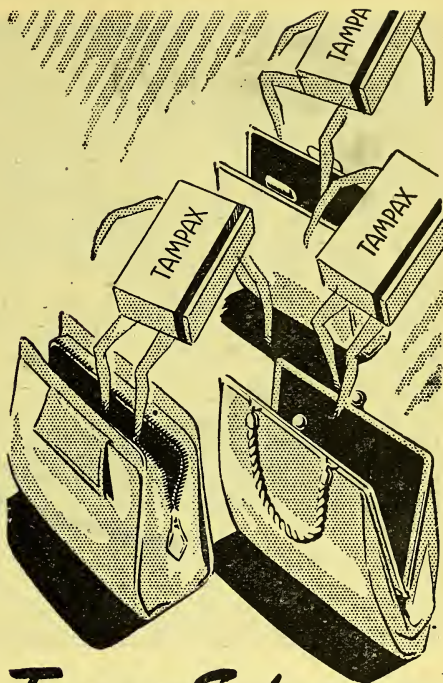
FRAGRANT TONIC HAIR CREAM

"Makes the hair behave"

Prepare your own supplies of this high grade cream, easy to make up, costs less than 2d. per oz. All materials available, also Bottles, Screw Caps, Corks and smart Gold Seal labels. Send stamp for List.

BRICCAS LTD.

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*Tampax Sales
are more than lively!*

Personal recommendations and consistent advertising are bringing new business for Tampax every week. And new Tampax business means two things—both acceptable to the dealer in these days. Every sale starts a steady repeat demand. And every customer who comes in for Tampax usually goes out with other purchases as well!

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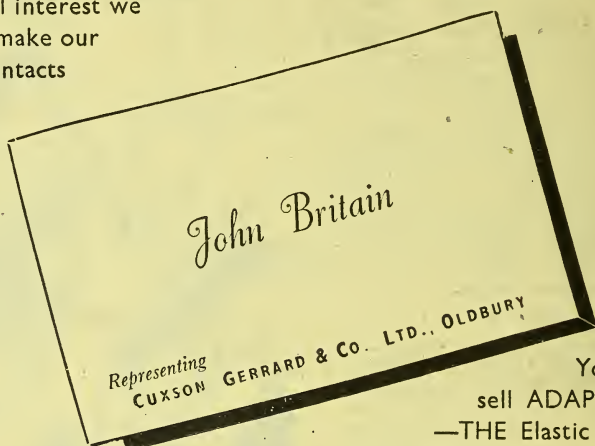
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National interest we
cannot make our
usual contacts



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—THE Elastic First Aid
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... — The Traveller.

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DYER STREET, MANCHESTER. (Est. 1826)



ZINC OXIDE and RUBBER ADHESIVE PLAISTER
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AND OTHER
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NOW!*

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AS MATERIALS BECOME AVAILABLE

FOR YEARS A UNIVERSAL NEED, HAS NOW WON PUBLIC APPEAL
UNLIMITED SUPPLIES RETAILED AT

**EVERY PERSON ENTERING
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On the P.A.T.A.

PLESOX

EITHER FOR HIMSELF OR A FRIEND OR RELATIVE
for **LASTING RELIEF** from
INDIGESTION and more
serious **STOMACH AILMENTS**

Win grateful customers with PLESOX, the modern stomach treatment, backed by wide publicity in the National and Provincial Press. Why lose sales? Order now 1 doz. Trial size (2/3) in attractive display carton.—Artistic Showcard.—Free Pamphlets, each worth a sale.

ALSO For MORNING SICKNESS and other toxic conditions of PREGNANCY "GRAVOMIN"
GRANTO LABORATORIES LTD., (Dept. C.D.), 128 MORTLAKE ROAD, KENSINGTON



SUPER QUALITY

**Absorbent
Cotton Wools**
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COTTON WADDINGS

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CAMPERDOWN ST. & GT. ALIE ST.
LONDON, E.1
Established 1844





VACUUM FILLING

by

ALBRO

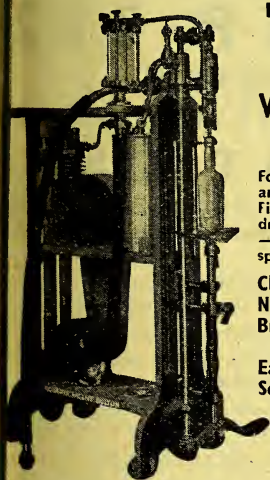
Albro Junior Type Vacuum operated machine for filling perfume, etc., into sprinkler neck bottles.

Output up to 10 gross of small bottles per hour. There is an A L B R O machine for every filling need.

**ALBRO FILLERS AND
ENGINEERING CO., LTD.**

**NORTHAMPTON WORKS
WATSON'S ROAD, WOOD GREEN
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ROBERTS' PATENT "LEO" VACUUM FILLER

For Glass, Stone, and Tin Bottles. Fills all sizes from drachm to quart—long, short or sprinkler neck.

**Clean & Rapid
No Over Filling
Broken Bottles
Rejecte.]
Easy to Clean
Self Rinsing**

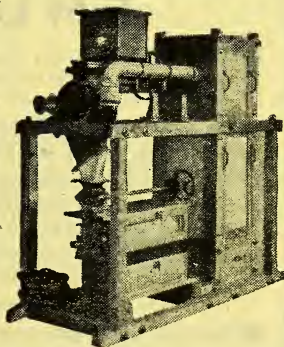
*Write for
Particulars*

Roberts' Patent Filling Machine Co. Ltd.
BOLTON, LANCASHIRE
Makers of every description of Bottle Filling and Shallow Jar and Tin Filling Machine for the Chemists' use
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purely material

Not only will this machine reduce raw materials to a fine powder, but it sifts to a uniform grade and ensures absolute purity by rejecting any foreign matter. On the purely material side, it is economical to operate and runs trouble-free practically for ever.

*Combined
FEEDING
GRINDING
SIFTING
and DUST
COLLECTING
PLANT*



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2288 (3 lines)

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"Gardner, Gloucester."

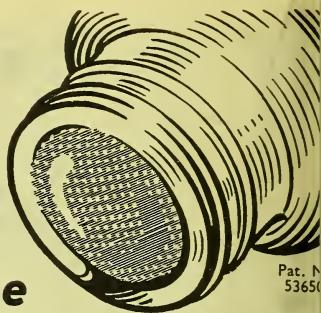
DABitoff

the **Only**

stain remover

with the

CLOTH FILTER



Pat. No.
53650

ON THE MARKET AGAIN

and better than even

- ★ Non-inflammable
- ★ No wastage
- ★ Always ready for use
- ★ No cleaning cloth needed

Obtainable from all Wholesalers or direct

1/6

No Purchase Tax



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Supreme for all processes of
**WATER-IN-OIL AND OIL-IN-WATER
EMULSIFICATION**

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- EMULSIFIER 202 effectiveness makes it possible to save raw materials.
- EMULSIFIER 202 prepares without the addition of alkalies or any other emulsifying agent, ODOURLESS Emulsions of either type in the quickest and simplest way.
- EMULSIFIER 202 gives the possibility of obtaining easily not only water-in-oil emulsions in ointments and creams, but also very stable oil-in-water emulsions of any type. Therefore it will find wide application in the pharmaceutical and cosmetic industries.
- We shall be pleased to receive inquiries.

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Telephone: Ladbroke 0202

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"Sulfasuxidine"

Trade Mark

BRAND

Succinyl Sulphathiazole

Following extensive research in the sulphonamide field by the Medical-Research Laboratories of Sharp & Dohme, a new compound has been synthesized which exerts a potent anti-bacterial effect within the intestinal tract. This drug is 'Sulfasuxidine' succinyl sulphathiazole . . 2-(p-succinylaminobenzenesulphonamido) thiazole.

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References: Proc. Soc. Exper. Biol. & Med. 48:129, Oct. 1, 41.
Arch. Surg. 44:187. Feb. 1942.
Arch. Surg. 44:208. Feb. 1942.
Am. Surg. 115:829. May, 1942.
J.A.M.A. 119:615. June 20, 1942.

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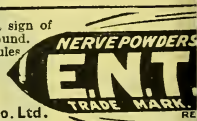
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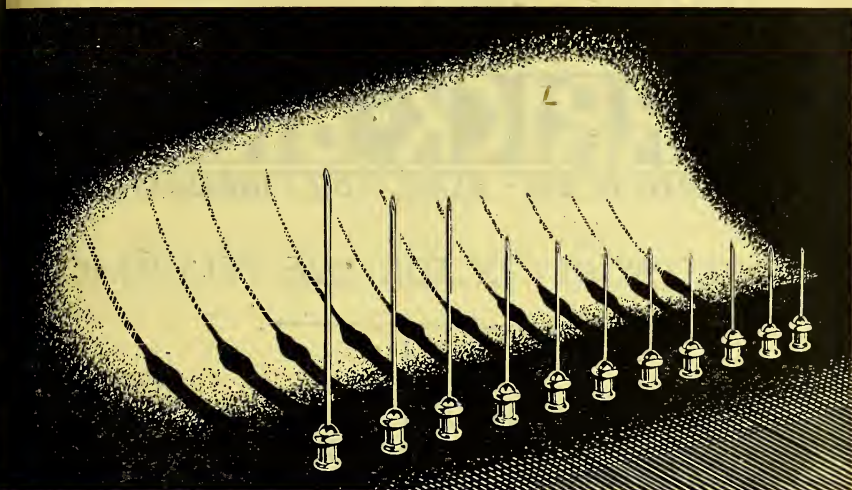
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NEWS OF THE WEEK

Calamine Lotion.—The Board of Trade has issued a general licence (S. R. & O. 13, No. 366) under the Toilet Preparations Order, 1942, allowing persons who are listed in Part 1 of the Toilet Preparations Register to make ex-quota supplies of calamine lotion to the following bodies:

Hospitals belonging to local authorities; voluntary hospitals included in the emergency hospital scheme of the Ministry of Health, of the Department of Health in Scotland, and the Ministry of Home Affairs for Northern Ireland; (3) other hospitals and institutions situated in Great Britain or Northern Ireland whose names are entered in the Hospitals Year Book, 1940. A responsible person of the hospital institution will be required to complete a declaration in the form indicated in the schedule to the licence. This must be signed by a registered manufacturer either directly by the hospital authorities or through their supplier, who must endorse the

declaration in order to obtain replacement. The declarations should be retained by registered manufacturers for a period of at least eighteen months. Copies of the general licence are available (price one penny) through any bookseller or newsagent or direct from H.M. Stationery Office, Kingsway, London, W.C.2.

Proposed Organisation of Employees.—

Enclosed with the March issue of the "N.P.U. Supplement" is a leaflet addressed to "managers, assistants, dispensers, drug hands and apprentices employed in retail pharmacy." Employees are asked whether they want an independent and self-governing organisation; whether any help offered by the N.P.U. Executive can be accepted in good faith without loss of independence; and to apply for membership of such a body, subject to the conditions being satisfactory. It is pointed out that the N.P.U. Executive has been invited to assist in organising employees in retail

pharmacy, but before accepting must be satisfied that it will receive adequate support. There is also the attitude of members of the N.P.U. to be considered.

Shaving Soaps Again in Eire.—Small quantities of shaving soaps are now again available in Eire. The acute shortage noticed in recent weeks is believed to be due to excessive buying by the public. From February 17 a system of control by licence of soap and candle manufacturers has been in operation.

Textile Research Developments.—The annual report of the Manchester Chamber of Commerce Testing House states that an outstanding feature of the work during the past year has been the study of substitute materials to replace rubbered fabrics for surgical dressings. Much advice has been tendered to official bodies concerned with new specifications for such materials in which chemicals in short supply have been subject to economy measures. Work has also been done on testing medical dressings for war purposes.

Industrial Health.—Mr. Bevin (Minister of Labour and National Service) announced on March 11 the appointment of an Industrial Health Advisory Committee and the holding in April of a three-day conference on industrial health. He spoke of the importance to the war effort of maintaining the health of industrial workers, as well as the gain to the general well-being of the community. There was, he pointed out, a distinction between industrial health regarded as the requirement of healthy conditions and practices in industrial establishments and the health of the worker, but there had been too great a tendency to allow the two to remain apart. In this work doctors, engineers, chemists, physicists, and others had a part; it included the detection and remedying of injurious conditions or processes, but it was also an essential duty of employers and the trade unions. Mr. Bevin mentioned the importance of good lighting and ventilation and of proper nutrition in the maintenance of health.

Progress of Packaging Research.—The Packaging Research Committee states that up to date ninety-nine firms have joined the scheme for packaging research (*C. & D.*, August 29, 1942, p. 230), representing a subscription total of £5,245. The Committee met recently and it was unanimously decided that the initial response is satisfactory. The Council of the Printing and Allied Trades Research Association is accordingly

to be asked to assume control of the scheme from April 1. The Council will shortly opt representatives of packaging interests to its membership. A small representative committee is now considering the method of administering the research in order that it may be conducted with the utmost efficiency. This committee will consult with the existing Research Committee of the Printing and Allied Trades Research Association and will also make recommendations in order that the membership of the Advisory Panel shall be determined to the best advantage of all interests. The function of the Advisory Panel will be to decide the immediate programme to be undertaken and to supervise the progress of the work.

Science Papers at Edinburgh.—The programme at an evening meeting of the Northern Branch of the Pharmaceutical Society, held in Edinburgh recently, Mr. W. F. Hay (chairman of Executive) presiding, was concerned mainly with the presentation of three short papers. The CHAIRMAN, before calling on Professor Todd to read the first paper, referred to the death of Mr. Sutherland, Dalkeith (a member of the Executive). The title of the paper was "The Stabilisation and Drying of Digitalis Leaves." In discussion on Professor Todd's paper Dr. BLACKIE asked whether the experiments described were confirmed by the biological tests. He could endorse the author's statement that no great care was needed in drying digitalis leaves so long as over-heating was not applied; there was no great difference in the yield of digitoxin. Mr. MERSON said that after sixty years it would seem that very little progress had been made, for he could remember, in his apprenticeship days, collecting digitalis leaves from a field, drying them at an ordinary temperature in a sunny loft, and using them in a pharmacy. Mr. RITCHIE thought a green leaf was obtained by more careful drying. The method also had an effect on the stability of the leaf in tablet-making. TAIT asked what proof could be obtained from clinical trials. Dr. NELSON confirmed the soundness of the author's statement that the enzyme did not function at comparatively high temperatures. Professor TODD, in reply, said that the experiments were confirmed by biological tests, so far as such confirmation could be made to apply. In experiments on fruit it was found that, whichever method of drying was used, the results showed variation.

TOPICAL REFLECTIONS

Case for Discussion

The eight clauses put forward for addition to the statement of the Council of the Pharmaceutical Society on matters of professional conduct (pp. 266-67) need unhurried consideration, first by the branches of the Society and afterwards by a conference of representatives. Some will, I believe, be readily accepted, while others will be opposed. As an instance of the former, Clause 17 of the enlarged statement drafted may be selected. Where a pharmacist is employed in a pharmacy to carry out the duties required by the Pharmacy and Poisons Act of 1933, but is not in charge of the shop, situations may arise rendering his position anomalous in the extreme. Possible cases will readily suggest themselves to experienced people. About sixty years ago a chemist, called away from his shop for a few hours, left an apprentice in charge with the support of an older youth inclined to a different business; as he was going out, he remarked to the apprentice: "You have the knowledge, and he has the book." Does not that homely "parting shot" sum up the case against the unqualified manager? (No doubt we shall hear of exceptions.) As an instance of a proposal likely to arouse opposition I select Clause 19, "Articles for medicinal use designated by the Council as undesirable should not be sold." It is obvious that in a matter of this kind the opinion of the Council may or may not coincide with that of the generality of pharmacists. The serious aspect of the proposal is that the clause, if adopted, will constitute a direction, or at the least a commendation, to the Statutory Committee, with the result that a pharmacist may one day find himself charged with the offence of selling something not approved by the Council as merchandise.

Dominion Formularies

The chief part of Mr. John Christie's evidence submitted to the National Health Services Commission of South Africa (p. 8) has been so clearly summed up by him (p. 274) that I need not attempt a comment: What at first sight appears to be a subsidiary topic may, however, be treated here. Referring to duplication of names of products, it was suggested that a South African Pharmacopœia might be compiled. Such a compilation would, I assume, be acceptable only as part of a larger scheme in which each of the Domi-

nions would participate. It will be remembered that both Canada and Australasia have their semi-official formularies; if a third Dominion enters the field with a fully fledged pharmacopœia, some confusion is likely to be caused. Another and, I suggest, a better way of approaching the problem may be outlined. Already the British and the United States Pharmacopœias resemble each other so distinctly that if the latter was suddenly adopted as official in this country the change would hardly be greater than that involved in the publication of a new British Pharmacopœia. It would thus seem to be feasible, at no very distant date, to unify the contents of these two official books, leaving each of the Dominions (and, of course, any other country) free to adopt any semi-official formulary suited to its special needs. In some such way a series of regional collections of formulas might gradually be evolved: they should preferably have Latin as their principal language.

Permissible Changes

Reading the alternative formulas sanctioned for admission to the British Pharmaceutical Codex (p. 267), one thinks of the five supplements to that book, and of the further recommendation published in your issue of February 13. We may well inquire, with Macbeth, "Will the line stretch out to th' crack of doom?" An addition to the most recent supplement to the Codex (see *C. & D.*, December 26, 1942, p. 656) must have been most welcome to all who have to keep *au fait* with the changes: the cumulative index. To be sure that all the alterations are easily checked when wanted is not a light obligation. Some of them are rational enough: in others the advantage is not conspicuous. There never was much point in using a tincture as a flavouring in the formula for sulphur lozenges; the disappearance of tincture of orange from this formula will accordingly occasion little or no regret. *Potus imperialis*, with its imposing name, contains oil of lemon, which can well fill the double rôle of oil and tincture for the present. The case for devising a substitute for syrup of orange is not so clear, seeing that the Fifth Addendum to the British Pharmacopœia provides a *syrupus aurantii* containing only 3 per cent. of 90-per-cent. alcohol. However, all these minutiae of revision keep the Codex Revision Committee in practice, and may prove of service later.

Xrayser

INQUEST

A VERDICT of "Death by misadventure" was returned by the Colchester Coroner at an inquest on Mrs. Frances Mary Ritchie, widow of Dr. A. L. Ritchie, formerly of Cavendish, Suffolk, who died on February 22 from an overdose of soluble barbitone tablets. The Coroner explained that Mrs. Ritchie had been suffering from insomnia for some time, and had been in the habit of taking Luminol, prescribed for her by her late husband, who died in December 1942. On January 15, Dr. Tyler, whom she consulted, prescribed for her a simple bromide mixture and thirty half-grain phenobarbitone tablets with instructions to take three at night. On February 14 she saw Dr. Crowther, who succeeded her late husband in his practice, and he prescribed a bottle of medicine and twenty tablets of soluble barbitone, each tablet containing $2\frac{1}{2}$ grains.

Dispenser's Evidence

Miss Mary Gwendoline Clark, dispenser to Dr. W. E. Crowther, Cavendish, and formerly dispenser to the late Dr. Ritchie, stated she had made up Luminol tablets for Mrs. Ritchie at the instructions of Dr. Ritchie, who had previously "put them up" for her himself. On December 1, 1942, before Dr. Crowther took over the practice, witness went into the dispensary and noticed that a bottle containing $2\frac{1}{2}$ -grain soluble barbitone tablets was not in its position. This she discovered on the hall table, and Mrs. Ritchie, who came downstairs at that moment, said, "Have you found your bottle?" adding, "Do you think I might have a few?" and witness gave her about eight of the tablets. Later, on December 29, 1942, deceased asked if she thought Dr. Crowther would mind if she had a few sleeping tablets. Dr. Crowther was not in, so witness gave her twenty $2\frac{1}{2}$ -grain soluble barbitone tablets; later telling the doctor.

The Coroner: And on January 15 she went to Dr. Tyler and had thirty half-grain tablets?—Yes.

Dr. W. E. Crowther, who gave evidence of the prescribing of $2\frac{1}{2}$ -grain soluble barbitone tablets, was asked by the Coroner, "Assuming she had thirty or forty of these $2\frac{1}{2}$ -grain tablets why should she ask for more?" The doctor replied that the barbitone tablets would be taken at night to induce sleep, and he imagined the half-grain tablets would be taken in the day-time, as a sedative. The correct dose of the $2\frac{1}{2}$ -grain

tablets would be five or seven-and-a-half to ten. How many tablets do you consider it would require to establish the condition?—The lady was in on February 21?—I should expect she would have had twenty-five to thirty grains (ten to fifteen tablets). He asked that recovery had been known after twenty-two. Not in an unattended patient?—In hospital.

Dr. F. E. Camps, Essex pathologist, gave evidence that Luminol could definitely become a drug of addiction, and in the event the memory would definitely be affected. It was a well-known fact that people so affected might take a second or more doses not realising that one had already been taken.

COMPANY NEWS

I. A. SANDERS, LTD. (P.C.).—Capital £1,250. Chemists, druggists, opticians, etc. Douglas E. Sanders and Irene A. Sanders, M.P.S., directors. R.O.: 82 High Street, Harpenden, Herts.

GLYSAN PRODUCTS, LTD. (P.C.).—Capital £1,000. Manufacturing chemists, dyers and manufacturers of chemical and dye products, etc. Directors not named. Registered Office: Ling House, Moorgate, London, E.C.2.

STANLEY DRUG CO., LTD. (P.C.).—Capital £100. Wholesale or retail chemists, herbalists, etc. Arthur J. and Winifred Stanley, directors. Solicitors: Dorrance, Darlington & Nice, 202 Station Road, Edgware, Middlesex.

IVA FUR PUFFS, LTD. (P.C.).—Capital £2,000. Manufacturers of fur and powder puffs and similar articles, cosmetic toilet requisites, etc. William Addiscott and Lionel G. Jackson, directors. Solicitors: Payne & Co., 10 New Square, London, W.C.2.

ANTISEPTIC PRODUCTS, LTD., 105 Bridge Road, Maidstone.—Mr. George Smith, M.P.S., has joined the board.

COMPULSORY WINDING-UP.—In the Company Division, on March 15, an order for compulsory winding-up of Premier Industries Co., Ltd., was made on a petition brought by the Crown for unpaid tax and costs.

ADJUSTMENT ORDER.—William James Davies, trading as Gags, Fizzan Co., wholesale distributor and manufacturing chemist, 13 Charlotte Square, Rhiwbina, near Cardiff, Order under Liabilities (War-time Adjustment) Act, 1941, granted March 1.

TRADE NOTES

Supplies Again Available.—Thos. Christy Co., Ltd., 3 Castle Street, Farnham, Surrey, are again offering limited supplies M.O. emulsion of magnesia and paraffin.

Distribution of Dulcin.—All inquiries for Dulcin manufactured by Pal Chemicals, Ltd., should be sent to the sole distributors, Honey & Co., 16 Grosvenor Place, London, W.1.

For Customers in Need.—The distributors of Winox (Brooks & Warburton, Ltd., 232-42 Vauxhall Bridge Road, London, W.1) ask that the restricted supplies available shall be reserved to customers who need this preparation.

Tonic Food Agents.—Southern Utilities, Ltd., 50-52 Castle Lane, Bournemouth, have been appointed sole distributors of Leciferrin tonic food by the makers, Leciferrin Ltd., Regent Street, London, W.1. Terms are given on another page.

Beef Extract.—Prices of certified pure extract of beef imported by Wilson Meats, Ltd., 91-93 Charterhouse Street, London, C.1, are available on application. The extract is available in 1½, 2½ and 3½-oz. tins, and in ½, 1, 2, 4, 8 and 50-lb. tins.

Stainless Steel Hypodermic Needles.—The end points of Agla hypodermic needles with record mount, which are now made from Sheffield stainless steels, are set out in an announcement by Burroughs Wellcome Co., London, elsewhere in this issue.

Vola-Seltzer Tablets.—Johnson Agencies (Proprietaries), Ltd., Clarendon Works, Roydon, are distributors of a new analgesic and alkalisng product, Vola-Seltzer tablets, packed in glass tubes and cardboard outer. They are also handling Cal-Ma-Vite digestive nerve tonic, packed in two sizes. Details will be published in our advertising pages shortly. Supplies are now available.

Succinyl Sulphathiazole.—Following researches in the laboratories of Sharp & Rohme, Ltd., Hoddesdon, Herts, a new compound has been synthesised which exerts a potent anti-bacterial effect within the intestinal tract. The compound has been named Sulfasuxidine succinyl sulphathiazole 2-(*p*-succinylaminobenzenesulphonamido) thiazole. Sulfasuxidine succinyl sulphathiazole is only slightly absorbed and exerts its effects almost entirely within the intestinal tract. Less than 5 per cent. of the drug is excreted in the urine, and toxic manifestations have not been observed

following therapeutic doses. Sulfasuxidine succinyl sulphathiazole is supplied in compressed 0.5-gm. tablets, in bottles of 100, 500, and 1,000.

Synthetic Substitutes for Quinine.—The Minister of Health has issued a circular letter to hospital authorities informing them that supplies of mepacrine hydrochloride, B.P.; mepacrine methanesulphonate, B.P.; and pamaquin, B.P., are available for anti-malarial treatment from Pharmaceutical Specialities (May & Baker), Ltd., Dagenham (as Quinacrine preparations); Imperial Chemical (Pharmaceuticals), Ltd., Manchester, 1 (all); Boots Pure Drug Co., Ltd., Nottingham (hydrochloride tablets only).

Business Changes

DUFAY-CHROMEX, LTD., have acquired the business of Polyfoto (England), Ltd.

MR. W. T. ELDER, M.P.S., 176 George Street, Aberdeen, has purchased the business of the late Mr. George Reid, M.P.S., 471 Great Western Road, Aberdeen.

MR. THOMAS A. DOLAN, L.P.S.I., has acquired the pharmaceutical business of the late Dr. MacMichael, Tullamore, Offaly. The surgery attached to the Dr. MacMichael pharmacy has been taken over by Mr. Dolan's brother, who will transfer to it his practice as a dentist in Tullamore.

Proprietary Articles Trade Association

Additions to Protected List.—*King & Hudson, Ltd.* Malaria specific, twelve tablets, 5s., 40s. doz., tax 6s. 8d. doz., inclusive retail price 5s. 7d.; 120 tablets, 40s., 25s. each, tax 4s. 2d. each, i.r.p. 44s. 2d.; 3-oz., liquid, 5s., 40s. doz., tax 6s. 8d. doz., i.r.p. 5s. 7d.; 40-oz., liquid, 40s., 25s. each, tax 4s. 2d. each, i.r.p. 44s. 2d.

Southern Utilities, Ltd. Leciferrin, 4-oz., 2s. 6d., 18s. doz., tax 3s. doz., i.r.p. 2s. 9d.; 8-oz., 4s. 2d., 30s. doz., tax 5s. doz., i.r.p. 4s. 7d.; orders over £3 subject to 10 per cent. and a further 5 per cent. for cash in seven days.

Alterations.—*Moore Medicinal Products, Ltd.* M.M.P. pocket inhaler, amber glass, 15s., 120s. doz.; clear glass, 13s. 6d., 108s. doz. Exempt from tax. Brovon midjet inhaler, amber glass, 9s., 72s.; clear glass, 7s. 6d., 60s. Exempt from tax.

R. Demuth, Ltd. Bonus of thirteen to doz. on minimum one-doz. lots withdrawn.

Wings for Victory.—Tons of repulped waste paper are used in the production of every aeroplane. Increased plane production demands more waste paper.

HORTICULTURE FOR THE RETAIL CHEMIST

by W. F. Elvidge, B.Sc., Ph.D., F.I.C.

VI.—Insecticides

THE number of substances that are used or have been advocated as insecticides is so large, and their chemical nature so diverse, that a simple classification according to their origin or chemical nature is not possible, and the usual practice is to divide them into two main groups, namely stomach poisons and contact insecticides, although the division between these two is not always clear, and then to describe the principal members of each group, classifying together, so far as possible, those of a similar type.

1. Stomach Insecticides

These act through their poisonous nature, and arsenical compounds form the most important and largely used group of this class. Lead and calcium arsenates and Paris green are the most familiar with which the retail chemist has to deal. Although in America more basic compounds are used, the grade of lead arsenate marketed in this country is the diplumbic hydrogen arsenate, PbHAsO_4 , containing 31 per cent. As_2O_3 , 63 per cent. PbO , and not more than 0.5 per cent. water-soluble As_2O_3 . For convenience in use, this is often supplied in 50 per cent. strength in the form of a smooth ready-mixed paste, sometimes with the addition of wetters or spreaders. The insecticidal properties of this compound are due practically entirely to its arsenic content, the lead apparently playing no important part, and in an attempt to produce a substance possessing a less cumulative poisonous effect than lead, particularly in spray residues, calcium arsenate has been studied. Although widely used in American horticulture, the amount of the calcium salt used in this country is negligible as compared with lead arsenate. In contrast with the corresponding lead salt, CaHAsO_4 is too soluble for safe application, as it has a decided phytocidal action, and commercial samples of calcium arsenate contain an excess of free lime to reduce this. In addition, the calcium salt is more readily hydrolysed, and because of its physical nature it renders itself more useful for application as a dusting powder, whereas the lead salt is more suitable for wet spraying.

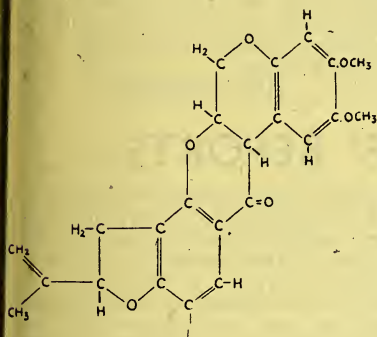
Paris green, the first of the insoluble arsenic compounds to be used commercially, is a complex compound of copper arsenite and acetate, of the formula $(\text{CH}_3\text{COO})_2\text{Cu} \cdot 3\text{Cu}(\text{AsO}_2)_2$, commercial samples containing from 55 to 60 per cent. As_2O_3 . The silico-fluorides which may also act partially as contact insecticides are usually included as stomach poisons. Here again the principal form in which silico-fluorides are used is as an insoluble salt, in this case barium compound. Of other inorganic salts that have been used as stomach insecticides the most interesting is Reineck's salt $(\text{NH}_4)_2\text{Cr}(\text{SCN})_4$, which was elaborated with a view of combining the insecticidal properties of chromium and thiocyanate. On the organic side, there has been a whole host of compounds recommended as insecticides, and every year sees numerous patents taken out, and from these we only select a few which have become of commercial importance either in this country or the U.S.A. Following up the idea that organic sulphur compounds would be effective, phenothiazine (di-benzothiazine) was introduced into the U.S. This compound is interesting because although its use as an insecticide did not live up to its original promise on account of its photo-decomposition into products of poor insecticidal properties, it has during recent years become of great value in veterinary medicine as an anthelmintic. Phthalonitrile is a new insecticide which appears to have either a stomach-poison or contact action on insects, and American workers report that this compound is generally superior to lead arsenate as a drier.

A series of compounds containing nitrogen and sulphur have been tried out as outstanding in toxicity to insects with thiourea and some of its derivatives. Xanthone $\text{CO} : (\text{C}_6\text{H}_4)_2 : \text{O}$ is a recent development among organic stomach-poisons upon which promising results have been reported.

Contact Insecticides

Included in this group are the important vegetable products derris and pyrethrum which merit some detailed consideration. Derris has been a subject of much study

th from the point of view of ascertaining the chemical nature of its constituents and from the problem of elaborating chemical and biological methods for its evaluation. The most important principle is rotenone, known to possess the following structural formula:—

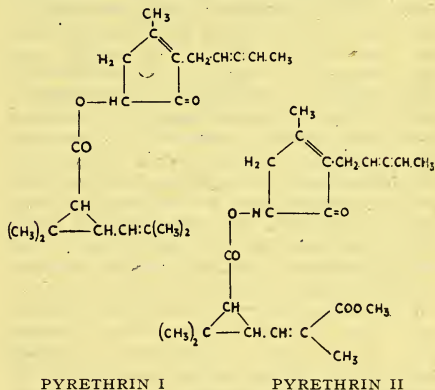


Rotenone, however, is not the only toxic ingredient present, and from the rotenone-resin the following other active principles have been isolated and identified: toxicarol (15-hydroxy deguelin), sumatrol (5-hydroxy rotenone), malaccol (15-hydroxy elliptone) and elliptone itself, which is active precursor. Optically active deguelin has yet to be separated. With regard to the relative toxicities of these constituents, rotenone is about 5 to 6 times more toxic than the resins freed from rotenone and toxicarol and some 15 times more toxic than either toxicarol or sumatrol. The evaluation and comparison of different samples of derris is complicated by the fact that the main commercial supplies come from two different species, *Derris malaccensis* and *Derris elliptica*, and the different species and varieties vary considerably in the relative proportions of the active principles present. The resins from *D. elliptica* contain approximately 40 per cent. rotenone, 27 per cent. deguelin, with only small quantities of sumatrol and toxicarol. The resins of *D. malaccensis*, on the other hand, consist principally of toxicarol with smaller quantities of deguelin and sumatrol and with but little rotenone. Commercially, the evaluation of derris samples is based on the determination of the total ether extractives and the amount of "crystallisable rotenone," the determination of the latter being based on the property of rotenone to combine with carbon tetrachloride to give a crystalline complex. A suggested standard procedure for carrying out this determina-

tion has recently been put forward. Whilst these determinations serve to evaluate roots within a given species they cannot be relied upon to give a comparison between different species and for this purpose the "rotenone equivalent" has been suggested, and these values for different species possess a reasonably close correlation with their biologically determined relative toxicities. The "rotenone equivalent" is obtained by adding to the actual rotenone content $\frac{1}{5}$ th of the percentage of the deguelin-containing fraction and $\frac{1}{3}$ th of the toxicarol fraction.

Since the loss of the Malay States, supplies of high-quality derris for horticultural purposes have been very limited, but it is understood that supplies will be made available of the South American root lonchocarpus, which contains constituents similar to derris, and it is of interest to note that this has been included in the Fifth Addendum to the B.P.C. where either derris or lonchocarpus can be used for the preparation of the applicatio derridis used in the treatment of scabies.

The active constituents of pyrethrum flowers are known to be pyrethrins I and II, which are the pyretholone esters of chrysanthemum mono and di-carboxylic acids respectively, with the following structural formulæ:—



PYRETHRIN I

PYRETHRIN II

These two compounds are usually present in approximately equal amounts, but there is some considerable doubt regarding their relative insecticidal activities, and differences between the results of different workers can to a certain extent be ascribed to the different test insects used and the physical form in which the insecticides are applied. The last-published work on this problem indicated that in kerosene solution both compounds show a similar toxicity

for house flies but that pyrethrin II induces a more rapid "knock down" effect. In this country pyrethrum is usually assayed chemically on its pyrethrin I content, the determination being based upon hydrolysis and separation of the chrysanthemum mono carboxylic from the di-carboxylic acid by steam distillation. In America pyrethrin I is determined by its reducing properties on mercuric salts, and other methods for determining both constituents are based on their copper-reducing properties.

The cultivation of pyrethrum in Kenya on a systematic basis of collaboration between the growers and the Department of Agriculture has resulted in this country producing the highest grade of flowers, containing on the average 1.3 to 1.4 of pyrethrins as compared with 0.9 to 1.1 per cent. for Japanese and 0.7 to 0.8 for Dalmatian flowers, and the production of Kenyan pyrethrum increased from 60 tons in 1924 to 1,865 in 1938.

(To be continued)

CITY ANALYSTS' REPORTS

In his report on 1942 the Salford city analyst records an improvement in the food-substitutes position, although he still does not consider it satisfactory. For example, the label on a vitaminised lemon substitute stated "Highly vitaminised," "This product is rich in vitamin 'C,'" "Each bottle contains the equivalent of ten fresh lemons," and "One teaspoonful of this with seven of water equals approx. one lemon." The sample was found to contain 6.9 per cent. citric acid and only 0.6 mgm. vitamin C per 100 gm., and one bottle contained approximately 32 gm. of liquid. An average lemon yielded about 40 gm. of juice, which contains approximately 7.5 per cent. citric acid and 50 mgm. vitamin C per 100 gm. of juice. The sample was thus deficient in vitamin C to the extent of 98.8 per cent. Samples of a cream emulsion of cod liver oil with improved chemical food were found to contain 32.3 per cent. by volume of cod liver oil, and 1.1 per cent. of mineral matter, consisting of phosphate of iron, calcium, etc. No declaration of the amounts present was given on the label. The four cod liver oil emulsions of the British Pharmacopœia and British Pharmaceutical Codex contain 50 per cent. by volume of cod liver oil, except emulsion of cod liver oil and cresote, which contains only 33 per cent. The sample tested was not an official preparation and, as it contained a smaller amount of cod liver oil, it was highly desirable that its exact composition should be declared on the label. Legal proceedings were instituted against the vendor but the summonses were dismissed under the Probation of Offenders Act on payment of costs.

"Practically Useless Tonic"

A sample of tonic preparation had the following composition: Water and traces of chloroform and other flavouring substances,

99.78 per cent.; phosphoric acid, 0.15 per cent.; quinine, 0.02 per cent.; iron, 0.004 per cent.; saccharin, colouring matter, etc., 0.05 per cent. The amount of iron was significant; 11 oz. of the product would have to be consumed to obtain a minimum medicinal dose of quinine. He was of opinion that the sample was practically useless as a tonic and that the statement included in the label on the bottle, "the finest nerve stimulant" and "quintessence of iron, phosphates, tartrates and delicious fruit essences" were calculated to mislead. Legal proceedings had not been instituted because the vendor could not be traced. The sample of prepacked lemon-juice substitute bore a label which stated "Two teaspoonful equal one squeezed lemon"; the word "substitute" was printed in letters much smaller than those of the words "lemon juice." Although only a small amount of the product was available for analysis it was proved that vitamin C, if present at all, was only present in an extremely small amount (7 mgm. per 100 mls.). The attention of the packers has been drawn to this label.

Nine Incorrect Samples in Birmingham

During the fourth quarter of 1942 the Birmingham city analyst examined 11 samples of drugs, and found nine incorrect. The foods and drugs analysed included a sample of almond oil with an acid value of 13.7 (B.P. maximum, 4.0); three samples of baking powder with inadequate available CO_2 ; Rochelle salt containing about 18 per cent. of sodium bicarbonate; salicylic acid ointment 37 per cent. deficient in salicylic acid; three samples of formaldehyde tablets 58 per cent., 75 per cent. and 80 per cent. deficient in paraformaldehyde; glycerol and borax containing 7.4 per cent. extraneous water; and a glycerol and borax substitute with a deficiency of 82 per cent. borax.

HARMACEUTICAL SOCIETY of IRELAND

MEETING of the Council of the Pharmaceutical Society of Ireland was held at 67 Lower Mount Street, Dublin, on March 9. Mr. John Gleeson (president) in the chair. Members present were Messrs. C. J. Cremen, C. Cahill, P. A. Brady, P. Brooke-Kelly, R. Lester, H. P. Corrigan, M. Costelloe, G. Cunningham, J. P. Kissane, M. J. Kieran, J. A. O'Rourke, Sir T. Robinson, J. C. Scott, J. K. Whelehan, and Miss F. M. Wood.

Correspondence

A letter was read from the Minister for Local Government and Public Health to acknowledge the Council's letter on the subject of the terms of an advertisement for a compounder for the Blackrock Dispensary District and stating that the contents have been noted.

From the Registrar of the General Medical Council, London, a letter was received stating that a new issue of the British Pharmacopoeia, 1932, is now on sale. (See *J. & D.*, February 27, p. 211.) Orders for copies should be sent forthwith to Constable & Co., Ltd., 10 Orange Street, Leicester Square, London, W.C.2, and not to the office of the Council.

Mr. D. V. O'Sullivan, M.P.S.I., Mainstreet, Cahirciveen, co. Kerry, wrote:—

"Dear Mr. Kerr,—In my letter to you yesterday (February 5) I forgot to mention a very important matter that requires the attention of all members of the pharmaceutical profession, and I would like to have your views on the matter. The matter in question is that Government departments in Eire do not recognise the signatures of any pharmaceutical chemists when same witness signatures of paying orders, old age pensions, or widows. As you are aware all those forms state that signature must be witnessed by either a peace commissioner, barrister or solicitor, minister of religion, medical practitioner, member of the Oireachtas, a head teacher of a public elementary school or secondary school, a member of the Garda Síochána not below the rank of sergeant, a clerk or any member of a local authority, or a home assistance officer. In my opinion a chemist has every right to be included in this section as well, as I consider that he comes next in importance to the medical practitioner. Not that it makes a lot of difference one way or another, but very often it would prove very convenient to be in a position to sign such documents, and secondly I think that a pharmaceutical chemist should get greater recognition by all Government departments, by having power to sign such documents as may be required

as already mentioned above. I would appreciate your views on the matter."

The Registrar (Mr. J. J. Kerr) was instructed to write to Mr. O'Sullivan intimating that the Council were entirely sympathetic to the views he put forward in his letter, and would support his suggestions whenever the opportunity arose. THE REGISTRAR mentioned that in acknowledging Mr. O'Sullivan's letter he had expressed the view that pharmaceutical chemists were very suitable persons to be made peace commissioners, as they were always available.

Registration Matters

Mr. D. C. Bourke, M.P.S.I., has changed his address to 50a Lower Drumcondra Road, Dublin; Mr. J. Ellis, M.P.S.I., to 51 Main Street, Longford. Mrs. M. Farrell, M.P.S.I., née O'Halloran, submitted her marriage certificate and requested change of name in the Register. The application was granted. The following who submitted matriculation certificates were granted Preliminary registration: Messrs. C. J. Clancy, H. I. O'Regan, A. T. Geary, and E. M. Shanahan. THE REGISTRAR reported on the removal of the name of F. J. Whelan, L.P.S.I. (1905) under Section 25.

Investment

THE TREASURER (Mr. P. C. Cahill) brought before the Council the question of investing £1,500 of the Society's ordinary funds, and a sum of £200 on behalf of the Benevolent Fund. He gave the terms supplied by the brokers for investment in National Security Loan, Dublin Corporation Stock, and Bank of Ireland Stock. On the motion of MR. KIERAN, seconded by MR. CORRIGAN, it was decided to invest the money in Dublin Corporation Stock.

Reports

The reports of the House and Schools Committees were submitted and approved. THE REGISTRAR reported on the death of Mr. A. Williams, L.P.S.I.

Sale of Part 1 Poisons

It was reported to the Council by THE REGISTRAR that there was widespread sale in the Dublin area of Veganin tablets, which contained codeine, a Part 1 poison, in wrappers without the name or address of the seller, or without observance of the other

legal provisions of a Part 1 poison sale. THE PRESIDENT said the Council took a serious view of this matter and directed the Registrar to take steps to prevent sales of the drug in this illegal way.

Elections

Mr. D. Warwick and Mr. J. K. Carvill were unanimously re-elected examiners to the Assistants' examination for the year ending March 1, 1944. Messrs. T. J. Brosnan, W. A. Fielding, and B. C. Sullivan were elected members of the Society. Mr. Thomas A. Dolan, Ph.C.; Baltrasna, Moate, co. Westmeath, was nominated for membership of the Society. The Licence certificate of John Joseph Byrnes was signed and sealed.

The Council then went into committee to consider Section 6 of the Consultative Committee's Report.

Benevolent Fund

At the meeting of the Benevolent Fund Committee held following the Council meeting THE TREASURER reported that a grant of £50 had been received from the Leverhulme Trust. On the motion of THE PRESIDENT, seconded by MR. CREMEN, the Committee passed a resolution expressing its deep appreciation of this generous donation from the Leverhulme Trust.

THE PRESIDENT recalled that a promise had been made at the last Council meeting to set up a small subcommittee of members of the Committee and members of the Dance Committee to review the present administration of the Fund and to suggest improvements where necessary. The Committee appointed the president, vice-president (Mr. C. J. Cremen) the treasurer (Mr. P. C. Cahill) and Mr. W. Cunningham as members of this proposed subcommittee. One grant was passed for payment by the Committee.

ANOTHER NEW YEAST?—"This food (*Mopsipopula scafaritica*) is more astounding than it was at first supposed to be. It is now known that it contains mulcifix on a scale sufficient to turn vapour into fats at the rate of seventeen tons a day. Blue-bottles fed on the new food flew madly round and round the laboratory until they dropped dead from exhaustion. It was noted that the introduction of the food into a vat of melted lard caused the contents to reach boiling point at 23 degrees centigrade. It is rich in zinc, commented a well-known scientist."—Beachcomber in the "Daily Express."

COMING EVENTS

Tuesday, March 23

ROYAL INSTITUTION, 21 Albemarle Street, London, W.1, at 3 p.m. Sir Henry Jones on "Imitating Nature."

Wednesday, March 24

TEES-SIDE BRANCH, PHARMACEUTICAL SOCIETY, Cleveland Technical Institute, Middlesbrough, at 6 p.m. Annual meeting. Mr. S. A. Gamlen on "What to do in the Event of Your Pharmacy Being Blitzed"; Mr. T. H. Hopper on "Situation in the Pharmacy"; Mr. J. Langman on "Vitamins."—At 4.30 p.m. Meeting of pharmacist employees.

Wednesday, March 24

BIRMINGHAM PHARMACEUTICAL ASSOCIATION AND BRANCHES, Grand Hotel, Colmore Row, Birmingham, at 3 p.m. Papers on "The Organisation of Pharmaceutical Employees." Mr. H. Walsh on "The Present Position and the Prospects"; Mr. H. Wilkinson, Bradford, on "The 'Omnibus' Organisation (communicated); and Mr. P. Crees on "The Essentials of a Pharmacy Union as Exemplified in the Association of Pharmaceutical Employees."

Thursday, March 25

PHARMACEUTICAL CORPS, Archway Central Hall (Archway Station Underground), London, at 7 p.m. Film show.

WEST HAM AND EASTERN DISTRICT ASSOCIATION OF PHARMACISTS and National Pharmaceutical Union Branch, 43 West Ham Lane, London, E.15 (opposite Queen Mary's Hospital), at 2.45 p.m. Combined meeting. Mr. R. H. Kemp (organising secretary, N.P.U.) on "Post-war Planning for Retail Pharmacy."

CHEMICAL SOCIETY, Burlington House, Piccadilly, London, W.1, at 11.30 a.m. Annual meeting. Stewart's Restaurant, Old Bond Street, W.1, at 1 p.m. Luncheon. Burlington House, at 2 p.m. Dr. W. H. Mills, M.A., F.R.S., on "Stereochemistry of Labile Compounds."

CLOSED ON SATURDAYS.—Advertisers and subscribers are reminded that owing to conditions the Head Office of THE CHEMIST AND DRUGGIST, 28 Essex Street, London, W.1, is closed on Saturdays until further notice. Urgent instructions relating to advertising subscriptions should be sent to the C. & D., 17 Argyle Street, Bath, Somerset.

MARRIAGES

BOYD—FRASER.—At St. Paul's Church, Place, Edinburgh, on March 5, Petty Ian George Duncan Boyd, younger son of the late Mr. William G. Boyd, S., 41 Warriston Crescent, Edinburgh, with Kyle Stalker Fraser, Edinburgh.

GRAHAM—CAMPBELL.—At Glasgow registry, Gordon Graham, B.Sc., M.P.S., Edge Hill Road, Glasgow, W.I, to Helen Bell, Glasgow.

ORMEROD—SHERIDAN.—At Friary Church, West Bridgford, Nottingham, on March 10, Harold Ormerod, 98 Lynwood Road, Blackburn (a director of Openshaw & Co., Ltd., wholesale chemists, Simmons Street, Blackburn), to Euphemia S. Sheridan, Nottingham.

DEATHS

DOPE-DARBY.—On March 5, Mr. Arthur Dope-Darby, 110 Grenoble Gardens, Palace Green, London, N.13, one of the London representatives of Thomas Kerfoot & Co., Ltd., aged seventy-five. From 1890 to 1912 he was with Barclay & Sons, Ltd., and was subsequently with John Morgan & Sons, Ltd., and the British Xylonite Co., Ltd.

MARSH.—At Speldhurst, Kent, recently, J. Taylor Marsh, for thirty-six years manager of A. J. White, Ltd., proprietary medicine manufacturers, London, S.E.5, aged seventy-nine.

MEADOWCROFT.—On March 12, Mr. Norman Meadowcroft, assistant managing director, W. Meadowcroft & Son, fruit and vegetable manufacturers, Blackburn, aged 67.

ORRELL.—On March 12, Mr. L. Orrell, proprietor of Elvelsol Laboratories, Whitefield, Manchester.

RICKARD.—On November 22, 1942, Mr. J. S. Rickard, formerly president of the New Zealand Pharmacy Board. With the closing of Mr. Rickard's pharmacy in New Zealand has lost one of its most popular members. For twenty years he occupied various official positions in the pharmaceutical field. In 1928 Mr. Rickard was elected to the Pharmacy Board, and had been re-elected annually since. He was president of the Board for six years. He was also been a member of the Stock Medicines Board since 1935. From 1939 Mr. Rickard had been president of the Australia-

Pharmaceutical Conference and still held that office at the time of his death. He took a leading part before the Parliamentary Committee on Industries and Commerce in 1936 that made inquiry into the company pharmacy question. Active in the preliminary negotiations by the Government upon the Social Security organisation, he was in direction of the Pharmacy Plan Committee when first organised by the Industries and Commerce Department. In collaboration with the late C. L. Butchers, Melbourne, he had a share in drafting the Pharmacy Act of 1939.

WARRICK.—In Sydney, Australia, on March 5, after a brief illness, Mr. Edward Warrick, aged sixty-two. Mr. Warrick was for many years a director in England of Warrick Brothers, Ltd., Nile Street, London, and subsequently joined The British Drug Houses, Ltd. In March 1935 he took over the management of that company's branch in Australia, i.e., The British Drug Houses (Australia, Pty.), Ltd., and was still employed in that capacity at the time of his death.

PERSONALITIES

MR. B. A. PROBERT, B.Sc., has joined H. R. Napp, Ltd., 3 and 4 Clements Inn, London, W.C.2, as technical adviser.

MR. J. C. YOUNG (a member of the Pharmaceutical Society's Council) is recuperating at Nottingham after a recent successful operation.

MR. SAM McCauley, managing director, Irish Pharmaceuticals, Ltd., Dublin, has been elected a vice-president of the Federation of Irish Industries.

PROMOTIONS FOR EIRE ARMY PHARMACISTS.—Pharmacists who have figured in recent Army promotions in Eire include Second-Lieutenants W. Creaven, J. Slattery and G. O'Donnell (to First Lieutenants). Lieutenant A. F. Roche was in an earlier list.

MR. A. LAWSON, M.P.S., F.I.O. (Arthur Lawson, Ltd., 46 Bell Road, Hounslow, Middlesex), who recently completed fifty years in business, may be the oldest practising pharmacist in the country. When a local journalist called on him to offer congratulations on the completion of fifty years' work, he found Mr. Lawson at eighty-five years of age busily engaged in making-up prescriptions. Mr. Lawson enjoys excellent health and works at the shop from 9 a.m. until 6.30 p.m. He was also the first optician in Hounslow.



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Official organ of The Pharmaceutical Society of England, The Pharmaceutical Society of Northern Ireland, The Chemists' and Druggists' Society of Scotland and of other Chemists' Societies in the Empire

PL. CXXXIX MARCH 20, 1943 NO. 3293

The fact that goods made of raw materials in short supply owing to war conditions are advertised in this paper or described in its editorial columns should not be taken as an indication that they are necessarily available for export.

An End to "Wait-and-See"

THE Minister of Health is losing no time in holding preliminary consultations with various bodies interested in a comprehensive medical scheme arising out of the Government's acceptance of the Beveridge Report. Following meetings with the medical profession, he met on March 10 representatives of the County Councils' Association, the Association of Municipal Corporations and the London County Council. There is still no news of a meeting being arranged with any organisation representative of pharmacy. The Minister intending no doubt to make a statement on his plans when introducing the Ministry of Health estimates in Parliament. This would take place shortly—following the end of the financial year—so that pharmacy should waste no time in settling its general line of policy.

The Pharmaceutical Society, with its 18,000 membership and its authority to administer certain Acts of Parliament, should take the initiative in setting up an advisory body representative of all sections of the trade so that pharmacy can on this occasion present a united front. When reference is made to pharmacy it is some-

times erroneously thought that only the above-mentioned 23,000 chemists are concerned. Such is not the case; pharmacy embraces manufacturers, wholesalers, distributors, makers of surgical bandages and appliances and several other classes. All are likely to be greatly affected by the method under which medicines and kindred requirements are supplied under a comprehensive medical service.

Need for Self-help

On various occasions we have urged the appointment of a public relations officer of the Pharmaceutical Society. If ever one were needed it is at the present time, though to enter into office with such a maelstrom in the offing would render his position no sinecure. It is a little unlikely that this official will be appointed in present conditions, but there is an alternative, and that is that chemists and others concerned should be their own public relations officers. It is probable that pharmacy was never so well represented in Parliament as it is now—there are four members of the Pharmaceutical Society apart from others connected with the drug trade—and we suggest that chemists should ask these particular members—and any others whose records lend hope of a favourable reception—to meet them or the committee of the local Branch and discuss the matter of a pharmaceutical service under a comprehensive medical scheme. At the same time the fact that their parliamentary representative is not connected with the drug trade and has shown no interest in the past is no reason to deter other chemists from acting similarly; in fact, it is an opportunity for exerting effect in influential quarters.

Experientia Docet

There is no time to lose in taking such action, for the introduction of the Ministry of Health estimates will afford opportunities for debating the matter on the floor of the House such as may not occur again for some months, if at all. By the time the Ministry's plans become more or less "cut and dried" it will be far more difficult and eventually perhaps impossible to get things altered. Chemists should not forget their experience at the time of the Pharmacy and Medicines

Bill, when the Government were willing to accept amendments on details but would not even consider any major alteration, so that last-minute efforts on behalf of chemists were of no avail.

Maximum Prices and Purchase Tax

IN the *C. & D.*; June 27, 1942, p. 704, we called attention to a new principle of price control under the Goods and Services (Price Control) Act, 1941, whereby price control is achieved by limiting the amount of the margin that may be added by the distributor to the cost price of the goods. While this principle has not so far been applied generally to the drug and allied trades, there seems to be no reason why individual items should not at some future date be the subject of such price control Orders. It is of interest, therefore, to note that the Board of Trade and the Central Price Regulation Committee have recently had under consideration the most convenient method of calculating maximum retail margins under price control orders. At present it appears some margins are calculated on the price of goods exclusive of purchase tax, while other margins are calculated on the price inclusive of purchase tax. The information collected by the Central Price Regulation Committee shows that a good many traders, particularly in the provinces, have always calculated their margins exclusive of purchase tax, whereas a number of other traders, especially the larger stores, have preferred the tax-inclusive basis. The importance of uniformity in practice in price control Orders has been strongly urged by the trade and the president of the Board of Trade is in agreement with this view.

After careful consideration he has accordingly decided that in future maximum retail margins will be expressed in orders exclusive of purchase tax. This does not mean, however, that amending Orders will immediately be made dealing with those commodities whose margins are now fixed inclusive of purchase tax. But when the Orders controlling their prices are amended the margins will be re-calculated on a tax-exclusive basis. In arriving at this decision the president has been governed by

three main reasons. First, when margins are calculated inclusive of tax there is a feeling among the public that retailers are "taking profit on the tax." This feeling is obviously unfair to the trade and disquieting to the public. Secondly, when purchase tax was debated in the House of Commons the Financial Secretary to the Treasury gave an assurance that retailers would not be allowed to take a profit on the tax. Thirdly, the fixing of margins exclusive of tax avoids the making of a new order whenever there is a change in the rate of purchase tax on a particular commodity. With regard to recent suggestions that a uniform margin would be a most useful simplification, it is pointed out that while such an arrangement would undoubtedly be convenient for some large departmental stores, it might well be most unfair to the smaller retailers selling only a limited number of products.

Derris Control Extended

UNDER the Control of Derris (No. 1) Order, 1942, which came into force rather more than a year ago, derris root and mixtures of roots containing derris root were brought under official control (*C. & D.*, January 1942, p. 114). By a new Order—the Control of Derris (No. 2) Order, 1943 (*S. R. & O.*, 1943, No. 314)—issued by the Minister of Supply and having effect as from March 1, 1943, the definition of controlled material specified in the original Order has been altered and extended to read as follows: (a) any root (whether whole, ground, or in any other physical form) of any variety of any species of derris or *Lonchocarpus*, (b) any article in any physical form known or described as cube, timbo, barbasco, hair, or nekoe, and (c) any mixture of (i) any article mentioned or described in head (a) or (b) with (ii) any physical form of any other root. This means, of course, that it will no longer be possible to substitute any derris root any of the derris-like substances mentioned above, or to buy or use them except under licence. Similarly, supplies of the articles may be disposed of only by licence-holders. The Minister of Supply has also issued Direction No. 1 under the Control of Derris (Nos. 1 and 2) Order, 1943 (*S. R. & O.* 1943, No. 315). The effect

the Direction is to authorise the acquisition and use of the controlled materials, the derris and derris-like substances mentioned above, under a certificate issued by The Association of British Chemical Manufacturers. The certificate, which must be issued under the hand of the secretary of the approved Association, must specify the controlled materials, the quantities and the purposes for which they are required. Every person to whom any such certificate is issued must render to the Minister of Supply, at the end of each calendar month running during the period of the certificate, a statement showing the quantities of controlled material treated, used and consumed, and the manner of dealing with the products resulting from such treatment, use and consumption. In cases of disposal, the names and addresses of persons to whom, and the quantities in which, disposal of each product was made, must be given.

Adhesive Plasters

WHILE no official action has been taken to restrict or regulate supplies and sizes of adhesive plasters in order to economise in the consumption of rubber, the makers, through the Medical and Surgical Plaster Makers' Conference, have arranged to standardise and limit the number of lengths and widths now being packed. This desirable action has no doubt been approved, if not prompted, by the authorities.

So far as N.H.I. requirements are concerned only 1-yd. lengths of adhesive plaster are now being put up; the 2-yd. and 3-yd. lengths are not now being packed. Through ordinary trade distribution the makers have discontinued the 2½-yd. spools, as it was felt that the 3½-yd. spool in widths of 1 in. and 1 in. met intermediate needs between 1-yd. and 5-yd. lengths. Hospitals will still be able to obtain either 5 or 10-yd. spools, but not in the previous full range of widths. The 5-yd. spool will be in six widths (½ in. to 3 in.) and the 10-yd. spool will have an additional width of 4 in.

As the plain rubber plaster contains more rubber than zinc-oxide plaster, the manufacturers have agreed to discontinue production in order to obtain a bigger coverage of the latter, except that enough will be made available to permit hospitals and doctors

to deal with cases where an idiosyncrasy to zinc oxide is known. Elastic adhesive strip dressings are now only available in two widths—1½ and 2½ in. The adjustments have been made solely with the object of economy in the use of rubber, and extensive research has been in progress for some time to effect a bigger coverage and rubber extension and substitution. While particular brands of these goods may not always be obtainable we are informed that an adequate supply of equivalents in the sizes and descriptions mentioned should be available.

Phosphorus on the Skin

THE use of yellow phosphorus in some incendiary bombs has directed attention to ways of nullifying its corrosive action on the skin. Copper compounds offer the most promise but aqueous copper sulphate solution, in the circumstances in which it would be used, falls far short of inactivating particles of the element. Goldblatt and Oakeshott ("British Medical Journal," January 30, p. 129) have analysed the aims of treatment as being coating solid particles with a non-ignitable layer, rendering large ones visible and converting small ones to an inactive form to permit removal by washing; treating dissolved phosphorus with an agent that mixes freely with it or produces an effective emulsion; and inactivating phosphorus in rubber-containing solutions by means of an agent that permits ready emulsification and facilitates complete removal of the rubber from the skin. It appeared to the authors that the reaction of inactivation might be hastened by the presence of a fat solvent, using copper in oil-soluble form, and that the rubber in mixtures could be dealt with by adding a rubber solvent to the formula. They devised a mixture containing

Copper oleate	25
Trichlorethylene	35
Sulphonated castor oil, 70% ammonia-finished	25
Surgical spirit	15

The spirit is essential when rubber is present but may be omitted when it is absent. They have drawn up the following routine: Extinguish burning areas by immersion in water or with wet blankets; apply the preparation formulated above as suggested by circumstances (e.g., swabbing, immersion, etc.); after complete inactivation clean area with tepid water; treat burn by any accepted method.

COUPONS FOR GLASS CLOTHS

THE Board of Trade has acceded to the request of the National Pharmaceutical Union that chemists should be enabled to replace glass cloths or towels for use in their dispensaries without having to use their personal clothing coupons. In view of the serious shortage of supplies, the Board of Trade has been unable to give an unlimited concession, and only those pharmacists who are really short of glass cloths or towels should apply for the certificates. The allocation is for a period of twelve months commencing January 1, 1943, and will provide a maximum replacement of four towels for one pharmacist or dispenser; when there are two the second pharmacist or dispenser will be allowed three; and for each extra pharmacist or dispenser, two. Thus a proprietor pharmacist, working alone, can claim four; if he has an assistant dispenser he can claim seven; if two assistants he claims nine, and two for each extra dispenser.

How to Apply

The applicant, if in either England or Wales, must write to the N.P.U.; in Scotland, the Scottish Pharmaceutical Federation has undertaken, on behalf of the N.P.U., to issue and receive the application forms; and in Northern Ireland the Ulster Chemists' Association, but the certificates will, at the request of the Board of Trade, be issued by the N.P.U. On receipt of a postcard from the applicant stating that his glass cloths need replacing, an official form of application will be sent on which the applicant will have to make certain definite statements. This form is being supplied to the N.P.U. by the Board of Trade; it is important that it should be accurately completed in every respect, as certificates cannot otherwise be issued. These certificates are supplied for the replacement of glass cloths used in pharmacies only, and as every pharmacist will be entitled to his share, there is no need to apply until there is the absolute necessity to replace the towels at present in use in the pharmacy. Members are asked to bear this in mind because staffing difficulties will render it impossible to deal quickly with the applications if every pharmacist applies at once. There is no guarantee of supply of towels, and members must make their own arrangements for the purchase of the number required. It is very important to remember that only qualified pharmacists

and dispensers are to be counted, because in this connexion drug girls and cour assistants are not included. The statements regarding the number of pharmacists and dispensers employed in any particular pharmacy must be such that they agree with the statutory returns made in respect of military service and the pharmaceutical census, with which they will be compared in all doubtful cases. Misuse of the certificates is an offence under the Consumer Rationing Orders. It should be noted that no facilities are being granted for the purchase of towels for washing facilities for personal use.

EMPIRE AND FOREIGN NEWS

Synthetic Rubber Production in Sweden.—Synthetic rubber at the rate of 100 kilobars a day is now being produced in Sweden. A larger plant under construction will have a capacity of 200 tons of synthetic rubber.

Medicinal Herbs in Palestine.—Commercial cultivation of medicinal herbs in Palestine commenced in 1941. The herbs so far cultivated include chamomile, stramonium, hyoscyamus, peppermint, thyme, fennel and anise.

East African Quinine.—During 1943, East African territories under the authority of the British Colonial Office will manufacture a proportion of their own essential quinine requirements. Cinchona bark produced in Tanganyika will be used for manufacture of totaquina in a factory recently established at Dar-es-Salaam.

German Cosmetic Industry.—In 1942, 1,600 firms were engaged in the manufacture of cosmetics in Germany. Most of these have been compelled to close owing to shortage of raw materials; the number of firms officially entrusted with the manufacture of toilet preparations by the Reich Office for Chemistry is below 100. Outsiders believed to number several hundreds have recently entered the market.

New Guinea Rubber.—Except at Kokoro where a rubber factory became a casualty in the fighting which resulted in the Japanese being ejected recently from New Guinea, rubber production plants in Papuan New Guinea are understood to have remained in good order. Production is being resumed by 300 native workers who took to the mountains are back at work on the plantations.

PHARMACY IN PRE-WAR CZECHOSLOVAKIA

The guest speaker at a meeting of the Thames Valley Pharmacists' Association held at Kingston-on-Thames recently was Czech refugee pharmacist, Mr. Paul Beregi, who gave an address on pharmacy in his native country prior to its occupation by Germany.

Apprenticeship and Training

After describing the system of general education under the Czechoslovak Republic, Mr. Beregi said that students who chose pharmacy as their profession had, after matriculation, to apply for an apprenticeship with a chemist. The chemist in turn had to seek official permission, through the Public Health Authorities, to employ an apprentice. Apprenticeship lasted two years. After it the candidate took a six weeks' course at a university and then his first examination, the "tyrocinium." Next he entered the university, in the faculty of philosophy. After a year's study he sat for his first examination in physics, chemistry and botany. Then followed a further year's study in the medical faculty, concluding with the final examinations in practical and theoretical chemistry, pharmacognosy and pharmacy. The successful candidate received a diploma as "magister pharmaciae" or pharmaceutical chemist. Those who wished to continue their studies could take a doctorate in chemistry, pharmacognosy, etc. This would require another two years at the university. Having passed through the university the young chemist had to become a chemist's assistant for—in Bohemia, Moravia and Silesia—five years, or—in Slovakia and Subcarpathian Russia—three years, the difference being due to the local variations in the laws. During his studies the conscripted student enjoyed deferment but, having passed his final examination, he had to join the army as a pharmacist. He was sent to the Army Medical Corps Officers' School, where he studied military dispensing for six months. After an examination he was sent to a dispensary attached to a military hospital. Here he served for one year, and the year was taken into account in the calculation of his term as assistant. The country had an army of about 120,000 men, divided into ten divisions; each division had a divisional hospital to which a divisional dispensary was attached.

Privileges and Opportunities

During active service all soldiers had free treatment and free medicines. Professional soldiers and gendarmes, as well as their families, could get medicaments at low prices (about cost price plus 10–15 per cent.). Besides the dispensaries there were three depôts at which the medicaments official in the army pharmacopœia (tablets, injections, etc.) were made and stored in bulk for use in the dispensaries. On completion of his three or five years' period as assistant the pharmacist presented his diploma to the authorities for endorsement. The endorsing clause, which was put on the reverse side of his diploma, enabled him to manage, rent or buy a chemist's shop, or to apply for a new licence. Such licences were personal, enabling the holder to have one pharmacy. Only one exception existed in this respect: in spas where a chemist was needed only during the season, the chemist in the vicinity could apply for a branch licence. To each 5,000 inhabitants one such licence was granted, and it was decreed that two pharmacies had to be at least 300 metres distant. There were also dispensaries in doctors' homes. A doctor could apply for a licence if the nearest chemist was a few miles away, but he had then to do all the work himself. He could not have an employee, and was allowed to keep only sixty-five drugs. 1,444 chemists' shops and 900 dispensaries in doctors' homes supplied the needs of a population of 14½ million. Thus there was one pharmacy to each 10,000 inhabitants.

Licences

Four types of licences existed:—

Personal.—These could not be sold, although the holder could sell the fittings and drugs and could give up his licence in favour of the buyer. It was customary to pay for a pharmacy a price representing twice the annual turn-over. A wife could inherit a personal licence for her lifetime; so could the children till they became of age. If they studied pharmacy the licence was transferred to them.

Real.—Issued by the Austro-Hungarian government before the last war as a privilege to certain individuals, on condition that they employed a qualified chemist to manage the shop.

Hospital.—Issued to (a) pharmacies

attached to the hospitals or clinics; and (b) pharmacies attached to the hospitals of the Holy Orders.

Branch.—In spas, as stated above.

Pharmaceutical Law

Forensic chemistry was simpler in Czechoslovakia than in Great Britain. There were no schedules—only one- and two-starred drugs which came under the Dangerous Drugs Acts. The poisons book was similar to that used in this country. A distinction was made between pharmacies at which at least 90 per cent. of the prescriptions were dispensed, drogeries (or the equivalent of drug-stores) which were not allowed to sell medicines—not even aspirin (as in England, they could sell household poisons if they applied for a poisons licence); and perfumeries which sold only cosmetics. Drogeries and perfumeries came under ordinary shop laws, whereas pharmacies were licensed.

Hours of Work

The hours in a pharmacy were arranged by the pharmaceutical societies, so that in towns where there were at least two pharmacies, all were open from 8 a.m. till 7 p.m., after which time a pharmacy on night duty issued medicines through a window cut in the main door next to the night-bell. Pharmacies not on night duty had to display a notice stating which pharmacy or pharmacies were open on the particular night or week. Employed pharmacists were entitled to two half-day holidays a week. In a town where there were two pharmacies this meant that the assistant of one pharmacy would be off every Tuesday and Friday (including nights), and of the other every Wednesday and Saturday. The first was on night duty on Wednesdays and Saturdays, and the second on Tuesdays and Fridays. In a town of considerable size where there were, say, twenty-five pharmacies, the arrangement was that there were five on night duties (which included Sundays and Bank Holidays). For the night duty the assistant had to make a charge of three Czech crowns for each private prescription dispensed and $1\frac{1}{2}$ Czech crowns for insurance prescriptions. Nominally this fee was a payment for lighting and heating, but actually the owners left it to the assistant on duty. The unluckiest pharmacist was the one in a village in which there was only one pharmacy. This had to provide service every day and night. There the arrangement was that the owner did the night duty one week, and the assistant the other.

Organisation

In Czechoslovakia there were two Pharmaceutical Societies: the owners' and employees', which carried on a stiff fight. The owners were naturally capitalists, but they were classed as professional men. The vicar, the doctor, the chemist and the notary formed the notabilities of a village. Employers and employees shared the tax payable towards health and old-age-pensions insurance. Ninety per cent. of all chemist-employees were organised in the pharmaceutical section of a strong trade union and the contributions paid into the trade union were at the same time a premium for unemployment benefit. Employed chemists aimed at better salaries and asked for a share of net profits. They based their claims on the fact that the owner did not actually work, and that the employed qualified chemist had to do day and night duties at a low rate of pay. In 1937 the employees' society worked out a plan according to which each chemist-owner would have to pay a percentage of his profits into a central trade union fund. The trade union would provide chemist-owners with personnel, and pay them wages out of the fund. This plan would have enabled the smaller pharmacies, which could not afford qualified assistants, to get relief in times of illness and during holidays. The plan also secured better salaries for older chemists who could not do night and day duties like the younger men.

An Ideal System

"In my opinion," concluded the speaker, "the ideal solution to the problem of providing a pharmaceutical service would be a combination of a personal-licence pharmacy with free right of establishment, that is a qualified chemist, having served his assistant's time, would automatically obtain a personal licence enabling him to open one shop anywhere he liked."

Discussion

Discussion ensued, in which points brought out included that proprietary medicines were not allowed to be advertised as in England; there was a fixed tariff for dispensing; and there was no company trading. Mr. W. S. HOWELLS (a member of the Pharmaceutical Societies Council) proposed a vote of thanks. He referred to the recent examination of refugee pharmacists and the satisfactory dispensing results, at the examination. There had been only one failure.

TRADE MARKS

from "The Trade Marks Journal," February 24)
ARGOGEN"; for pharmaceutical preparations containing compounds of silver for human use (5). **"ARSENOGEN"**; for pharmaceutical preparations containing arsenic for human and veterinary use (5). **"RHODATHOL"**; for pharmaceutical preparations for human and veterinary use, sanitary preparations, medicated wines, infants' and invalids' foods, biological preparations and dietetic foods (5). By Genatosan, Ltd., 43 Regent Street, Loughborough, Leicestershire. 620,921-22; 621,309.

INSOX"; for medicated socks for curative purposes (5). By Zinco Products, Ltd., 30 Turner Street, London, E.1. B 621,408.

MOTTIPS"; for anti-moth preparations (5). By Johnson Agencies (Proprietaries), Ltd., 86 Clarendon Road, Croydon, Surrey. 621,664.

LAURITEX"; for materials prepared for bandaging (5). By Macclesfield Oiled Silks, Ltd., Pearle Street, Macclesfield. 621,672.
RIBRANEX"; for all goods (5). By John Wyeth & Brother, Ltd., Oldhill Street, London, N.16. 621,681.

LATINEXA"; for non-medicated toilet paper and toilet rolls (16). By Cardboards, Ltd., 119 Moorgate, London, E.C.2: 621,663.

APPLICATION CANCELLED

According to "The Trade Marks Journal," February 24, specification No. 453,428, by G. H. Zeal, Ltd., has been cancelled in respect of sanitary towels, surgical dressings, sanitary knickers, medical and surgical plasters, sanitary belts and goods of the same description as any of these excluded goods.

From "The Trade Marks Journal," March 3)
TEMPO"; for soaps, cleaning preparations and non-medicated toilet preparations (3). By Harry Green, Ltd., Ajax Works, Hertford Road, Barking, Essex. 621,564 (Associated).

ASMA-BRON" on upright label design incorporating letterpress and name of applicants; for medicines for human use in treatment of asthma, for sale in Great Britain (5). By Grace Ida Orr, trading as The Orzone Co., 21 Ludgate Hill, London, E.C.4. 618,298.
REGULAR design; for pharmaceutical substances for human and veterinary use; sanitary substances; medical and surgical plasters; bandaging material; material for stopping teeth; dental wax; disinfectants; and vermin destroyers (5). By Imperial Chemical (Pharmaceuticals), Ltd., Wexham Road, Slough, Bucks. 618,505 (Associated).

HEMERIDE"; for antiseptic and germicidal preparations for human and veterinary use; and for disinfectants (5). By Parke, Davis & Co., 50-54 Beak Street, London, W.1. 621,339.

"SLAXOL"; for germicides (5). By L. Slack & Son, Ltd., 3 Porth Street, Porth, Glam. 621,717.

"MANDEX"; for preparations for treatment of urinary diseases (5). By Watford Chemical Co., Ltd., 11 Waterloo Place, London, S.W.1. 621,786.

"CAFFELIX"; for pharmaceutical preparations and substances for human and veterinary use; sanitary preparations; medicated wines; infants' and invalids' foods; biological preparations, and dietetic foods (5). By Genatosan, Ltd., 43 Regent Street, Loughborough, Leicestershire. 621,823.

"BLITOX"; for insecticides and fungicides (5). By Pest Control, Ltd., Harston, Cambridge. 621,836.

"DEMINROLIT"; for water-purifying and softening plants, etc., and for filters (11). By The Permutit Co., Ltd., Gunnersbury Avenue, London, W.4. 621,721 (Associated).

"GAY GUY"; for non-alcoholic drinks (32). By Collins Arden Products, Ltd., Regency House, Warwick Street, London, W.1. 621,465.

APPLICATION AMENDMENT

According to "The Trade Marks Journal," March 3, specification No. 620,422, by Nestlé's Milk Products, Ltd., has been altered to read "Cereals prepared for use as food for human consumption."

(From "The Trade Marks Journal," March 10)

"I.C.I."; for all goods (1), goods (2), essential oils, etc. (3), goods (4), pharmaceutical, veterinary and sanitary substances, disinfectants, weed killers and vermin destroyers (5), goods (6), (11) and (13), synthetic rubber, etc. (17), and for goods (19), (27) and (30). By Imperial Chemical Industries, Ltd., Wexham Road, Slough, Bucks. 615,005-06-07-08-09; 615,905-06; 615,011; 619,907; 615,012-13; 618,670 (all Associated).

"MEDIEVER"; for perfumes, pot pourri, pomanders and dried herbs for toilet purposes and perfumes, and for toilet herbal waters (3). By Old World Crafts, Loraine, St. Michael's, Tenterden. B617,604.

"MELSIAN"; for laundry and cleaning preparations, and for soaps, perfumery and essential oils (3). By Drugs, Ltd., 145 Sydney Road, Muswell Hill, London, N.10. 621,185.

"SILISOAP"; for abrasive soaps (3). By Thornton & Ross, Ltd., The Chemical Works, off Manchester Road, Linthwaite, Huddersfield. 621,365.

"LORICIDE"; for pharmaceutical substances for human or veterinary use (5). By Imperial Chemical (Pharmaceuticals), Ltd., Wexham Road, Slough, Bucks. 618,894 (Associated).

"REVODENT"; for medicated dentifrices and mouth washes (5). By G. W. Taylor, 40 Duncombe Street, Walkley, Sheffield. 620,622.

ALKALOIDS OF DELPHINIUM AJACIS

by Matthew V. Hunter, Ph.D., Ph.C.

PRELIMINARY to the extraction of the crushed seed of *Delphinium*, particularly of *D. Ajacis*, for total alkaloid content, fixed oil amounting to 38–39 per cent. of the total weight of the seed was removed and examined. The oil was characterised by a high acid value and bore a close resemblance to oil of *D. Staphisagriae*. Both types have well-known insecticidal properties, which have been shown to be derived from the fixed oil present and not from the alkaloids. From the alkaloids, totalling some 1 per cent. of the dry seed weight, five distinct members have been isolated. The first, ajacine, is believed identical with the compound obtained by Völker, but the empirical formula given by that worker has had to be revised while the molecular formula, which is double the empirical, is now shown to be $C_{32}H_{44}N_2O_8 \cdot 2H_2O$.

A second alkaloid, ajaconine, was then isolated and its properties described. The

formula, $C_{21}H_{31}NO_3$, is not in agreement with that of Völker, but in support of conclusions complete data were obtained including details from the preparation and investigation of various salts. The alkaloidal fraction is of particular interest in that it is a new addition to the list of *Delphinium* alkaloids. The formula $C_{22}H_{37}NO_6$, has been carefully checked by methods adopted in all these studies. Difficulties of crystallisation prevented study of the oxalates, but the picrate was obtained and this confirmed the data regarding the base itself. The name "ajacine" has been suggested for this member. The remaining two alkaloids, one of which is amorphous, have not yet been obtained in a state of purity and their identification must await further work.

[The paper was read at an evening meeting of the Pharmaceutical Society held in Edinburgh on February 24.]

UNSATURATED FATTY ACIDS AND DERMATITIS

THERE appears to be an increase in skin diseases due to the stress of war conditions. Many people have to carry out their share of the war effort in factories, and their skin, unaccustomed to such work, often breaks down. Considerable research has been carried out to inquire into certain features which make up the background of the normal healthy skin, and in particular into the place held by its fat content. It has been suggested that since the war began there has been a persistent lack in the diet of the unsaturated fatty acids to which in pre-war days the population had become accustomed. This lack is evidenced by the decreased availability of butter, the lower content of the unsaturated fatty acids in milk and the reduction in the quantity of milk available and the relative increase in margarine (with fully saturated acids) intake, and the decrease in the availability of lard and dripping.

If such a condition did obtain, it would be gradual in onset over a considerable period, and it might well be that this would affect the constitution of human subcutaneous fat, which has been shown to be normally constituted of unsaturated fatty acids in a proportion of 60 per cent. An

ointment for use in these conditions has been prepared by a British maker, to the following formula:—

Ol. maydis (U.S.P. XI)	66.6 per cent.
p-chlor-m-xyleneol	1.0 per cent.
Cera flav.	12.0 per cent.
Adeps lanae	8.0 per cent.
Sod. biboras	0.6 per cent.
Aq. dest.	11.8 per cent.

A second ointment, made up to contain 10 per cent. of zinc oxide, has also been used, and without the addition of the p-chlor-m-xyleneol, especially for use with a broken skin. Experiments have been conducted in the industrial problems of dermatitis, and have been limited to various types with the rigid exclusion of oil acne and of dermatitis following the use of oil-soluble toxins. In general, the experience with this ointment has been successful. Most noticeable has been the reduction in the length of time necessary for treatment as anticipated from experience in the use of other remedies in similar previous cases. The use of the ointment has been fortified by the daily exhibition of capsules containing maize oil in order to provide a known daily intake of unsaturated fatty acid. (S.L.)

THE ACRIDINE ANTISEPTICS

by W. H. Linnell, M.Sc., D.Sc., Ph.D., F.I.C., Ph.C.

It is a fact that the activity of acriflavine and proflavine is not reduced in the presence of serum must be considered an outstanding property. In 1934, with collaborators, I commenced a systematic chemotherapeutic survey of the acridine nucleus, to determine the effect on chemical and bactericidal properties of the position of the amino-groups.

Chemical Structure and Activity

Some correlation between chemical structure and activity has been observed. A mono-amino substituent causes complete inactivation and reduces toxicity; a 2-amino group increases activity, which is further enhanced by another amino group in the 3-, 4- (in the other ring) or 5-positions accompanied by increased toxicity in the presence of a second 2-substituent. When two amino groups (= 3 : 7-) are present the activity is moderate, but the 3 : 8-diaminoacridine (= 2 : 7-) is as active as proflavine but of lower toxicity; a 4-amino substituent has small activity whilst the 5-position is highly active but may give rise to increased toxicity. Albert has shown that these results are applicable to the several mono-aminoacridines, and it is interesting to note that the 1-amino derivatives are the only aminoacridines which do not fluoresce. The corresponding acridones are inactive, as are certain amino derivatives of 5 : 10-dihydroacridines and of aminodihydroacridine. This suggests that the intact acridine nucleus is essential. 2-Chloro-5-aminoacridine was the most active compound encountered in the survey, and this directed attention to the chloroamino derivatives. Two series were prepared, the amino group being in the 2- and the 3-positions, whilst the chlorine occupied positions 6-, 7-, 8- and 9-. In general the chloro compounds were slightly less active than the parent amino compound against *E. coli* and *Streptococcus pyogenes*. Thus the chlorine atom did not increase the activity of the amino compounds, as it does in the chlorophenols. On the other hand, 2-amino-6-chloro, 2-amino-7-chloro, and 3-amino-8-chloro-acridines were much more active against *Staphylococcus aureus* than the parent amino derivative or proflavine itself. This result is worthy of following-up, as the acridines in general are not very active against this organism. A series of chloro-alkoxy derivatives was

prepared and examined, but in these derivatives little difference in activity according to the position of the substituents was observed. The substances were extremely insoluble and the biological results must be considered with reserve.

The evaluation of a bactericide must include at least two considerations— toxicity to the invading organism and to the host or the tissues of the host. L.D./50 figures in mice have some significance if the substance is to be taken internally. For instance, the fact that 2-7-diaminoacridine is some ten times less toxic than acriflavine may suggest that the compound might be useful in the treatment of gonorrhoea, though the use of acriflavine for this purpose had to be abandoned owing to the grave risks of toxic reactions. On the other hand, in the treatment of wounds, the L.D./50 figures may have no significance. In this connexion, Manifold has shown that 2 : 7-diaminoacridine is much less harmful to brain tissue than proflavine or acriflavine, and recent experiments on artificial wounds have established the superiority of the 2 : 7-derivative. The principle of evaluating a disinfectant by considering its bactericidal or bacteriostatic power together with its action on tissue cultures is worthy of development.

Conflicting Results

Attempts to use the behaviour of the bactericide towards leucocytes as an indication of unwanted reactions have not given results that square with those of tissue cultures or artificial wound experiments. The discrepancies may be due to the great difficulties of experimental technique of the method, or they may suggest that it does not matter if some leucocytes are harmed. The results, together with recent work by Albert, will bear fruit in the marketing in the near future of 2 : 7-diaminoacridine and 5-aminoacridine. The former stains the skin pink whilst the latter is non-staining. Finally, from a recent private communication, it appears that 2 : 7-diaminoacridine is much quicker in action than any other derivative of acridine.

[From the pharmaceutical chemistry research laboratories of the College of the Pharmaceutical Society, University of London. The paper was read at an evening meeting of the Pharmaceutical Society held in London on March 11.]

TRADE REPORT

Spot quotations for pharmaceutical chemicals, crude drugs and essential oils represent the prices for wholesale quantities of standard quality. C.i.f. quotations do not include marine war risk insurance and other abnormal charges payable in the present emergency.

28 Essex Street, W.C.2, March 17

THE general business tone in the London drug and chemical markets continues much as previously reported, with hardly any items of outstanding interest. Here and there a few small export orders are noted, but business on the whole remains quite modest. Trade in PHARMACEUTICAL CHEMICALS is slow but fairly steady, and there are no unusual features to report. Prices are about unchanged, and no important developments have occurred in the supply position.

Crude Drugs

Home consuming trades have once again provided practically all the demand in this section, with the exception of the few small export orders already mentioned. Several inquiries have been received during the week for AGAR for pharmaceutical use, but existing supplies are reserved for bacteriological purposes. Some offers of Curaçao ALOES are reported, but there are no indications that business has been done. Little interest is being taken in BALSAMS, supplies of which are short. Some activity has been noted in BENZOIN, and cheaper lots appear to have been cleared. Spot supplies of BUCHU are exhausted, and replenishments are unlikely, except for a few small lots of new-crop that may come in. As noted last week, CARDAMOMS are somewhat firmer at the source. CASCARA SAGRADA bark continues in good inquiry, but supplies cannot be obtained at present. CLOVES are at one penny per lb. under last week's spot price. A little more inquiry has been received for ERGOT, which continues to sell slowly at steady prices. GUM ACACIA is quiet and unchanged. Some low-testing HENBANE is offered on spot. IPECACUANHA continues in considerable demand, and prices are firm; spot supplies of B.P. Minas seem to be exhausted. A steady routine inquiry has been received for MENTHOL, but business is not important. PODOPHYLLUM is rather firmer, with a higher price quoted for spot supplies. RHUBARB continues to sell to consumers, but supplies are steadily diminishing. A few inquiries have been received for SEEDS, but little business appears to have resulted. The London market for SHELLAC is un-

changed on the week. TRAGACANTH is steady at previously-quoted figures. WAXES are without change.

Essential Oils

Business in essential oils has again been extremely quiet, with few price movements to record. Some spot business is reported in drums of ANISE (STAR). CAJUPUT is slow and firmly held. Spot stocks of CANAFA are appear to be exhausted, but a good grade of ylang-ylang may be had as an alternative. CITRONELLA has been in good demand, but stocks are not obtainable. English distilled prices for CLOVE are maintained at recent levels. Spot values of EUCALYPTUS are unchanged, despite the good demand and poor supply position. LEMONGRASS is steady. Spot supplies of PEPPERMINT are difficult to find. There are no changes in the controlled prices of FIXED OILS.

Pharmaceutical Chemicals

ACETANILIDE.—Unchanged at about 2s. per lb. for B.P.C. crystals; powder, one penny per lb. extra.

BENZOIC ACID.—Obtainable for essential pharmaceutical and medicinal purposes at from 2s. 6d. to 3s. per lb., according to quantity.

BISMUTH SALTS.—Current prices per lb. for quantities of 8 lb.—28 lb. are as follows: Citrate, 10s. 5d.; citrate, 12s. 9d.; nitrate, 6s. 9d.; oxide, 14s. 7d.; salicylate, 14s. 3d.; subchloride, 14s. 3d.; subgallate, 13s.; nitrate, 9s.

BORIC ACID.—Makers quote per ton as follows: B.P., granulated, £60 15s.; crystals, £61 15s.; powder, £62 15s. Commercial grade, £8 per ton less. Packed in one-cwt. barrels delivered carriage paid in Great Britain, one-ton lots and upwards.

BROMIDES.—Makers' prices for POTASSIUM are as follows:—

Quantity	In parcels of					
	1 lb.	4 lb.	7 lb.	14 lb.	28 lb.	
	s. d.	s. d.	s. d.	s. d.	s. d.	
From 1 lb. . .	3 9½	—	—	—	—	
From 4 lb. . .	3 8½	3 6½	—	—	—	
From 7 lb. . .	3 7½	3 5½	3 4½	—	—	
From 14 lb. . .	3 6½	3 4½	3 3½	3 3½	—	
From 28 lb. . .	3 5½	3 3½	3 2½	3 2½	3	

SODIUM, 2½d. per lb. extra; AMMONIUM, 2½d. per lb. extra; powder, 2d. per lb. extra. W.D.T.A. packing charge applies to packages of less than 1 lb.

BRUCINE.—Quoted per oz. by makers as follows (in lots of under 25 oz.): ALKALOID, 4½d.; NITRATE, 1s. 3½d.; SULPHATE, 1s. 3½d.

CAFFEINE.—A new schedule of increased prices was given last week (p. 28r).

CITRATES.—A new schedule was given last week (p. 28r) showing slightly adjusted prices for the smaller packings.

COCAINE.—British makers' current wholesale prices are as follows: HYDROCHLORIDE and NITRATE, 25 oz. and over, 35s. 8d.; 16 oz. and less than 25 oz., 36s. 10d.; over 8 oz. and less than 16 oz., 38s. per oz. ALKALOID, CITRATE and SALICYLATE, 25 oz. and over, 39s. 1d.; 16 oz. and less than 25 oz., 40s. 4d.; over 8 oz. and less than 16 oz., 41s. 7d. per oz., 16-oz. packages free, smaller packing extra. The scale prices applicable to distributors of smaller quantities is as follows: HYDROCHLORIDE and NITRATE, 8 oz., 40s.; 4 oz. and less than 7 oz., 41s. 7d.; 2 oz. and less than 4 oz., 41s. 6d.; 1 oz. and less than 2 oz., 42s. 7d.; ½ oz. and less than 1 oz., 44s. 2d.; ¼ oz. and less than ½ oz., 47s. 3d. per oz. ALKALOID, CITRATE and SALICYLATE, 8 oz., 43s. 5d.; 4 oz. and less than 7 oz., 44s.; 2 oz. and less than 4 oz., 44s. 11d.; 1 oz. and less than 2 oz., 46s. 2d.; ½ oz. and less than 1 oz., 47s. 9d.; ¼ oz. and less than ½ oz., 48s. 10d. per oz., packages extra. Re-sale prices are subject to buyer's undertaking not to resell any quantity below scale current at time of re-sale. Export prices vary according to destination.

CODEINE.—Makers quote 4 oz. lots as follows: ALKALOID, 38s. 3d.; PHOSPHATE, 31s. 3d. per oz.

GALLIC ACID.—The price of any moderate supplies would be between 7s. 9d. and 8s. per lb.

GLYCERIN.—Prices for small quantities are as follows: 56-lb. tin, 99s.; 14-lb. tin, 105s. 10d. cwt., subject to 2½ per cent. discount, twenty-eight days.

HEXAMINE.—Free-running crystals, in one-ton lots, would be worth about 2s. 3d. per lb.

IODINE PREPARATIONS.—Makers' prices per lb. are as follows: POTASSIUM, B.P., 112 lb., 28 lb., 9s. 6d.; 14 lb., 10s.; 7 lb., 11s. 6d.; 3 lb., 12s.; smaller quantities, 12s. 6d. SODIUM, P., 28 lb., 9s. 11d.; 14 lb., 10s. 5d.; 7 lb., 11s. 2d.; 4 lb., 12s. 10d.; smaller quantities, 12s. 8d. IODOFORM, B.P. (powder), 28 lb., 10s. 6d.; 14 lb., 13s.; 7 lb., 15s. 2d.; 4 lb., 16s.; smaller quantities, 16s. 10d.; (cryst.) 28 lb., 10s. 6d.; 14 lb., 15s.; 7 lb., 17s. 2d.; 4 lb., 18s.; smaller quantities, 18s. 10d. IODINE RESUBLIMED, B.P., 112 lb., 10s. 4d.; 28 lb., 10s. 10d.; 14 lb., 11s. 4d.; 7 lb., 13s. 1d.; 4 lb., 13s. 9d.; smaller quantities, 14s. 6d. All prices net. Any quantity delivered carriage paid throughout Great Britain.

MAGNESIUM OXIDE, LIGHT.—Makers' rates for lots of 28 lb.—1 cwt. are as follows (containers in brackets): 2s. 4½d. (28-lb.); 2s. 5d. (14-lb.); 2s. 5½d. (7-lb.); 2s. 5½d. (4-lb.); 2s. 7½d. (1-lb.). Prices of the light and heavy carbonates of magnesium, in the same quantities, were given last week (p. 28r).

MAGNESIUM TRISILICATE.—Makers' prices for quantities of 14 lb.—28 lb. are as follows (containers in brackets): 3s. 4½d. (14-lb.); 3s. 4½d. (7-lb.); 3s. 5½d. (4-lb.); 3s. 7d. (1-lb.).

MANDELIC ACID.—Prices for MANDELATES are as follows: SODIUM and CALCIUM—4 oz., 8 oz. and 1 lb., 22s. per lb.; 4 lb., 20s. 3d.; 7 lb., 18s. 6d.; 14 lb. (in 7-lb. packages), 16s. 9d.; 28 lb. (in 7-lb. packages), 15s. per lb., net. AMMONIUM (50 per cent. solution)—4 oz., 8 oz. and 1 lb., 11s. 9d. per lb.; 4 lb., 10s. 9½d.; 7 lb., 9s. 10d.; 14 lb. (in 7-lb. packages), 8s. 11½d.; 28 lb. (in 7-lb. packages), 7s. 11d. per lb. net. Packages extra and returnable.

MERCURY IODIDES.—Quoted by makers at the following prices per lb.: RED, less than 7 lb., 20s. 8d.; not less than 7 lb., 20s. 2d.; not less than 14 lb., 19s. 8d. GREEN, less than 7 lb., 28s. 8d.; not less than 7 lb., 26s. 2d.; not less than 14 lb., 25s. 8d. YELLOW, less than 7 lb., 28s. 1d.; not less than 7 lb., 27s. 7d.; not less than 14 lb., 27s. 1d. net, carriage paid.

METHYL SALICYLATE.—Makers' quotations are steady as follows: Five cwt., 1s. 11d. per lb.; one cwt., 1s. 11½d.; smaller quantities, in bottles, 2s. 1½d. per lb.

PHENOLPHTHALEIN.—Steady at the following makers' rates: Less than 7 lb., 4s. 6d. per lb.; 7 lb., 4s. 5d.; 14 lb., 4s. 4d.; 28 lb., 4s. 3d.; 1 cwt., 4s. 2d. Prices are net.

SALICYLIC ACID.—Currently quoted per lb. as follows: in 28 lb.—1 cwt. lots (containers in brackets): 2s. 5½d. (1-lb.); 2s. 3½d. (4-lb.); 2s. 3½d. (7-lb.); 2s. 3d. (14-lb.); 2s. 2½d. (28-lb.).

SODIUM SALICYLATE.—Makers' prices are as follows:—

Quantity	In containers of				
	1 lb.	4 lb.	7 lb.	14 lb.	28 lb.
Under 4 lb.	s. d.	s. d.	s. d.	s. d.	s. d.
From 4 lb.	3 3	—	—	—	—
From 7 lb.	3 2	3 0½	—	—	—
From 14 lb.	3 1	2 11½	2 10½	—	—
From 28 lb.	3 0	2 10½	2 9½	2 9½	—
From 1 cwt.	2 11	2 9½	2 8½	2 8½	2 8
From 5 cwt.	2 6	2 4½	2 3½	2 3½*	2 3
From 1 ton	2 5½	2 3½	2 3½	2 3½*	2 2½
1 ton	2 5	2 3½	2 2½	2 2½*	2 2

* 8 × 14 lb. and upwards, in one delivery, ½d. per lb. less. Prices include parcels or collapsible cartons; other packages charged extra. Prices subject to buyer's undertaking not to re-sell any quantities at prices or terms below scale current at time of re-sale.

STRYCHNINE SALTS.—Makers' prices per oz. for ALKALOID are as follows: Under 25 oz., 4s. 11d.; 25 oz. and under 100 oz., 4s. 9d.; 100 oz. and under 500 oz., 4s. 7½d. Corresponding prices for HYDROCHLORIDE are 4s. 8d.; 4s. 6d.; 4s. 4½d.

TERPINEOL.—May be had for medicinal use at 3s. 6d. to 4s. per lb., according to quantity.

VANILLIN.—Makers' prices steady: Ex clove oil or guaiacol, 5 cwt., 22s. 6d. per lb.; 1 cwt., 22s. 9d.; 56 lb., 23s.; less than 56 lb., 23s. 3d.

Crude Drugs

AGAR.—Some inquiry for material for pharmaceutical use, but supplies are not available for this purpose. Kobe No. 1 for bacteriological purposes may be had at 65s. to 70s. per lb.

ALOES.—Moderate inquiry has been received for Cape, price of which is unchanged at 67s. 6d. per cwt. Some offers of Curaçao are reported, the price mentioned being 400s. per cwt., cost and freight.

ANTIMONY.—No changes have occurred during the week. Supplies are available only for essential purposes at the following prices: English, minimum 99 per cent. regulus, £120 per ton; 70 per cent. crude, for home trade, £100 per ton, delivered.

BALSAMS.—No movements have occurred in prices. *Tolu* remains in fair inquiry but in poor supply at 10s. 3d. per lb. *Canada*, nominal on spot at 9s. per lb., with supplies exhausted. *Peru*, 8s. 6d. per lb. *Copaiba* is unobtainable.

BELLADONNA.—Indian leaves quoted on spot at 4s. 9d. to 5s. per lb. Indian root, spot, offered at 495s. per cwt.

BENZON.—Has been in rather better demand during the past few days, and it is doubtful if further supplies would be available under £20 per cwt., with up to £25 asked for good grades.

BISMUTH METAL.—Price remains at 6s. 3d. per lb. for minimum 5-cwt. lots of high grade.

BUCHU.—Spot supplies have been cleared. A few odds and ends of new-crop may come in, but substantial supplies are not expected.

CAMPHOR.—Moderate routine demand for natural grades. Prices are unchanged, as follows: Chinese, B.P., spot, 11s. 6d. per lb.; crude, 92 per cent., 10s.; Japanese slabs, 12s. English synthetic may be had by approved buyers at 8s. per lb.

CARDAMOMS.—As noted last week, prices are higher at origin. Aleppy seed, spot, 6s. 6d. per lb.; shipment, 6s. 9d., c.i.f.; Aleppy greens, spot, 5s. 6d.; shipment, 5s. 9d.; split seed, spot, 5s. per lb.

CASCARA SAGRADA.—Inquiries continue for bark, but supplies are not available.

CHILLIES.—Mombasa continue to be offered on spot at 120s. per cwt.

CLOVES.—Zanzibar offering on spot at one penny per lb. below last week's price at 1s. 5½d. per lb., sellers; second grade, to arrive, 1s., c.i.f.

COCOA BUTTER.—Maximum official price remains at 1s. 5½d. per lb. ex factory or warehouse, except for sales under licence.

COCONUT (DESICCATED).—Maximum price under latest Ministry of Food Order is 49s. per cwt.

DIGITALIS LEAVES.—English-grown leaf is quoted at 2s. 4d. per lb.; Portuguese leaf may still be had on spot at 135s. per cwt.

DRAGON'S BLOOD.—Position and prices unchanged. Dullish Zanzibar drop, spot, £21 per cwt.; seedy lump, £30. Re-boiled, unobtainable.

ELEMI.—No change in the spot price of No. 1 gum at 290s. per cwt.

ERGOT.—In rather more inquiry this week prices are steady. Spot, sound, 5s. 6d. per slightly wormy, 4s. 9d. to 5s. per lb.; shipment, 5s. per lb., c.i.f.

GUM ACACIA.—Quiet and unchanged. *dofan* cleaned sorts, spot, 95s. per cwt.; *af* 75s., c.i.f.; shipment, 65s. per cwt., *Bleached gum* would be available for shipment at 130s. per cwt., c.i.f.

HENBANE.—Some East Indian low-test material is offered on spot at 300s. per cwt.

IPECACUANHA.—Good business is passing in firm prices. A few parcels of *Matto Grosso* still be available on spot at 20s. per lb., some holders are asking rather more. *Minas* remains in good inquiry, but supplies appear extremely difficult to find; *ur* B.P., if available, would cost 17s. per lb. *price of EXT. IPECAC. LIQ.* is unchanged as follows: *winchesters*, B.P., 1932, under 28s. 6d. per lb.; three and under six, 28s. 6d. per lb.; six and under twelve, 27s. 6d.; twelve and under 26s. B.P., 1914, under three, 26s. 6d.; three and under six, 26s.; six and under twelve, 25s. 6d.; twelve and over, 25s. per lb.; prices quoted are on a net basis.

JABORANDI.—Small spot lots are quoted at 60s. per cwt.

JALAP.—Brazilian root testing 16 per cent. resin is offered on spot at 105s. per cwt.; testing 13 per cent. may be had at 90s.

KAMALA.—Small spot supplies of 5 per cent. ash may be had at 2s. per lb.

MENTHOL.—Steady, small routine spot business at unchanged prices. Chinese, spot, to 77s. 6d. per lb., duty paid, according to holder; Japanese, 77s. 6d. to 80s.

MERCURY.—Controlled prices range from £68 10s. to £69 15s. per bottle for quantities over 7 lb.

MYRRH.—Aden sorts steady on spot at £18 to £20 per cwt.

NUX VOMICA.—Spot price of washed garbled Cochin is unchanged at 42s. 6d. per cwt., ex warehouse Glasgow. Some Cocar may also be had at 37s. 6d. per cwt., also warehouse Glasgow.

ORANGE PEEL.—Bitter quarters are quoted on spot at the unchanged price of 3s. 3d. per lb.

PAPAIN.—Nominal on spot at 17s. 6d. per lb.

PEPPERS.—Maximum price on a sale to processor or wholesaler of whole pepper picked over or cleaned is 1s. 4d. per lb. white, and 1s. per lb. for black, both duty paid.

PIMENTO.—Spot sellers' price is 1s. per lb.; shipment is not quoted.

PODOPHYLLUM.—Rather firmer, with supplies of *Emodi* (15 per cent.) quoted at per cwt.

PSYLLIUM SEED.—Indian offered on spot at 1s. 3d. per lb., ex store.

QUILLAIA BARK.—Crushed or cut bark may be had on spot at 115s. per cwt.; natural float, 80s. per cwt., c.i.f.

HUBARB.—Steady consuming trade, with slowly diminishing supplies. Good-quality high-round may be had on spot at from 7s. 6d. s. per lb., according to holder and quality.

APONIN.—Spot price of 7s. 6d. per lb., ex e, is unchanged; shipment remains at 6d., c.i.f.

SEEDS.—A few inquiries are being received. Little business appears to result. Prices remain at the levels recorded last week: **CORRIER.**—Indian, 82s. 6d. per cwt. **CUMIN.**—Tese, spot, 135s.; Indian, 125s.; English, s. **DILL.**—Spot, quoted at 180s. **FENNEL.** Indian, 100s., nominal. **FENUGREEK.**—90s. **STARD.**—Controlled (see *C. & D.*, November 1942, p. 564).

ENNA.—Quiet conditions obtain, with no change in stock or price positions. **Tinnevely** 1, 9d. to rod. per lb.; No. 2, 7d. to 7½d.; 3, 5½d. to 6d. **Alexandrian** broken, rs. 3d. s. 4d. Good hand-picked **Tinnevely** pods, 1 to rs. 2d.; ordinary grade, rod. to 11d.; 1, 6d. to 7½d. Hand-picked **Alexandrian** s, 3s. 6d. to 6s., according to quality.

HELLAC.—No changes are reported in ruling stations. Spot, standard **TN orange**, 205s. cwt., value; pure button, unquoted; fine age, 240s. to 290s. quoted.

QUILL.—Portuguese bulb continues to be sold on spot at 95s. per cwt.; Indian, 75s.

TROPHANTHUS SEED.—Demand is slow but dry; prices are unchanged. **Kombé** seed, per cent., spot, ros. 6d. per lb. for small with, fair-sized at a lower price.

RAGACANTH.—Quiet and without change. Prices of the medium grades are as follows: 1, white, £130 per cwt.; No. 2, white, £115; 3, white, £102; No. 4, white, £83; pale £73; amber leaf, £65; dark amber, £55; green leaf, £45; red-and-brown leaf, £40; red, from £35; woody and hogg, from £17, more.

URMERIC.—Interest in this item is negligible. Good, sound-quality **Madras finger**, 62s. 6d. per cwt., 60s.

ALERIAN ROOT.—Indian root is quoted on spot at 100s. per cwt., ex store.

VAXES.—Steady and unchanged. **CARBA.**—Fatty grey and chalky grey, spot, is quoted at 440s. per cwt.; **Primeira**, 520s., nominal. **BEES.**—Supplies may be had only through the Association of Merchant Distributors of Beeswax.

Essential and Expressed Oils

ANISE (STAR).—Rather more inquiry is recorded, with some business stated to have been done in drums at 54s. per lb. on spot.

BAY.—In small supply, with the spot value unchanged at around 12s. 6d. per lb.

BOIS DE ROSE.—Spot price would be in the region of 47s. to 47s. 6d. per lb.

CAJUPUT.—Spot supplies are short and would be firmly held for about 17s. 6d. per lb.

CANANGA.—Spot stocks appear to be exhausted. As an alternative a good-grade **ylang-ylang** may be had at about 85s. per lb.

CASTOR.—Controlled prices of bulk supplies are as follows: "Firsts," £72 per ton; "seconds," £70 per ton, both naked ex works.

CEDARWOOD.—Spot price of any available supplies would be 7s. to 7s. 6d. per lb.

CINNAMON LEAF.—Small spot supplies would be worth about 15s. per lb.

CITRONELLA.—Spot price for Java would be about 22s. to 24s. per lb.; Ceylon, 19s. to 20s.

CLOVE.—English distillers maintain prices at around 14s. per lb. for ordinary quantities.

COCONUT.—Controlled prices are without change. Crude, £36 12s. 6d. per ton; refined deodorised, £40; refined hardened deodorised, £44, all naked ex works.

COTTONSEED.—Price of refined deodorised is controlled at £49 per ton, naked ex works.

EUCALYPTUS.—In good demand but scarce. Spot, 70 to 75 per cent. oil, in cases, from 5s. 9d. to 6s. per lb.

GERANIUM.—Basic price of any available supplies would be about 80s. per lb., but business would have to be negotiated. British makers can supply artificial substitutes at lower prices.

GINGERGRASS.—In small compass on spot at approximately 25s. per lb.

GROUNDNUT.—Controlled prices remain at between £48 and £54 per ton, naked ex works, according to quality.

LAVENDER.—The spot price of any good-grade oil would be in the region of 90s. per lb.

LEMONGRASS.—Steady on spot at approximately 16s. per lb.

LINSEED.—Controlled price of £46 10s. per ton for large bulk quantities of crude, naked ex works, is unchanged. Distributors' prices for ordinary quantities would be higher.

PALMAROSA.—Small supplies are quoted at between 32s. 6d. and 35s. per lb.

PATCHOULI.—For good-grade oil, if available, about 75s. per lb. would be required.

PENNYROYAL.—May be had on spot at about 40s. per lb.

PEPPERMINT.—Spot supplies are difficult to find. Chinese and Japanese oils would be worth about 87s. 6d. to 92s. 6d. per lb., as to holder.

PETITGRAIN.—Dealers' quotations for small supplies are in the neighbourhood of 25s. per lb.

RAPESEED.—Bulk supplies of crude are officially quoted at £54 per ton, naked ex works.

ROSEMARY.—Small quantities are quoted on spot at approximately 16s. per lb.

SASSAFRAS.—If available on spot, price would be in the region of 19s. per lb.

SPEARMINT.—A little may be obtained on spot at around 40s. per lb.

THYME.—High-quality, on spot, is valued at about 25s. per lb., but lower-phenol-containing oils would be cheaper.

MISCELLANEOUS INQUIRIES

Colloidal Manganese.—*A. J. L.*—In preparing this solution flasks, measures, etc., must be chemically clean. For this purpose use potassium dichromate and sulphuric acid. Wash with dilute sodium hydroxide solution, followed by large quantities of distilled water. Distilled water must be freshly distilled, boiled under reduced pressure, to be free of air, and cooled quickly. Gum acacia, selected tears, is used to make a 1-10 solution. This is filtered, autoclaved for one hour at 120° C., cooled and again filtered through kieselguhr. The preparation must be made as quickly as possible. Whether this should be done under nitrogen requires further investigation, but probably this would be worth while.

(1) $MnCl_2 \cdot 4H_2O$	..	..	1.8 gm.
Dextrosi	..	..	3.0 gm.
Sol. acaciæ (1-10)	..	..	20.0 c.c.
Aq. dest.	..	to	100.0 c.c.
(2) $N/1$ NaOH	..	..	18.0 c.c.
Dextrosi	..	..	3.0 c.c.
Sol. acaciæ (1-10)	..	..	20.0 c.c.
Aq. dest.	..	to	100.0 c.c.

Each solution must be autoclaved at 5 lb. pressure for thirty minutes. When large containers are used phenol of course must be added. Equal quantities of each solution in a syringe give a faintly pink colloidal solution.

Athlete's Foot.—*H. D. C.*—In the treatment of this condition, also called ringworm of the feet and toes, a great variety of antiseptics have been used, but it cannot be said that any one of them is outstanding in efficiency. Tincture of iodine in strengths from 0.5 to 5 per cent. may be used according to the tolerance of the individual skin. Swabbing the area with 3 to 5 per cent. solution of silver nitrate in sweet spirit of nitre is another useful method. When the condition has reached a dry, scaly stage, an ointment containing 6 per cent. of benzoic acid and 3 per cent. salicylic acid should be used in preference to lotions.

Metal for an Agitator.—*D. & H.*—In peace-time we should recommend stainless steel or monel metal, but these are out of the question at present. It is not possible without a good deal of research to say what action, if any, your preparation would have on the phosphor-bronze rotors, but we do not think there could be any objection to a mild steel spindle. We suggest you use a mild steel spindle with teak rotors, or teak for both components. A craftsman could

make such an apparatus with pins of same wood, thus avoiding the use of metal.

Sale of Liquid Paraffin.—*L. M.*—position in regard to liquid paraffin is that its sale or use is not restricted by prescriptions. It can be sold over the counter for medicinal purposes, and it is onus that it will be used for medicinal purposes is on the buyer. For instance the customer asks for liquid paraffin and declares it is required for medicinal purposes, the chemist is quite entitled to sell it.

Hair Cream.—*E. B. D.*—We suggest experiment with the following formula:

Vegetable oil	..	..	160
White wax	..	..	8
Spermaceti	..	..	2
Borax	..	..	1
Distilled water	..	..	20

Liquefy the wax and spermaceti in the water, dissolve the borax in the distilled water, and while both solutions are at the same temperature, mix and shake up into cream. It may be necessary to vary slightly the proportions of oil and water according to the particular oil you use, and we suggest a preservative such as Nipagin, 1 to 2 per cent. may be necessary.

Creams containing castor oil are likely to be a little sticky, but the following gives a fairly good result:—

Castor oil	..	..	200
White wax	..	..	10
Cetyl alcohol	..	..	2
Borax	..	..	1
Distilled water	..	..	30

As in the previous case, the proportions of oil and water may need to be varied slightly, but preservatives should not be necessary. If you are unable to obtain cetyl alcohol we suggest an equivalent amount of spermaceti.

Dispensing Query.—*C. S. A.*—In our opinion tinct. guaiaci B.P.C. should not be used. Mucilage of tragacanth may be added to suspend the resin, and the result is a yellow mixture. Using the ammoniacal tincture of guaiacum of the B.P. a brown mixture is produced, but there is no justification to use the B.P. tincture in this case unless it is known that the doctor intends the ammoniated tincture. If the latter course is adopted the first dispensing of the prescription should endorse it accordingly.

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MAGNESIUM TRISILICATE B.P.

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A powerful natural tonic
and nutrient—Each tablet
contains 90 I.U. (approx.
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100 TABLETS 3/9d.
50 TABLETS 2/3d.
25 TABLETS 1/6d.

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Adapted for
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17 Sizes to fit various
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This image of
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was set up in A.D. 1131 in the hope
that it would bring Peace to the
World

For further information as to trade and travel facilities apply to the

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TABLETS
AND PILLS...**

**LOZENGES
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**GENERAL
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Worked under your own Brand if desired.

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In these trying times —



INDICATIONS

General fatigue and debility, hypertension, infective conditions, night blindness.

PACKINGS AND PRICES

80 tablets..	..	3/4½
250 tablets..	..	9/6
1000 tablets..	..	30/7½

(Including Purchase Tax) P.A.T.A. List

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Brand **Marcussens Ointment**

is now in good supply and normal requirement.
can be promptly dispatched against orders from
your wholesaler.

With propaganda now proceeding in the
medical press, the following reference should
prove helpful in dealing with any inquiries.

*A recent series of trials carried out under critical
observation showed that Kathiolan Ointment was
completely effective in every case treated, all
mites being killed with one application in twenty-
four hours.—Ref. "British Medical Journal,"
4/7/1942. Page 2.*

Kathiolan is manufactured in England to
Marcussens original formula and issued in two
packings only, viz.:—

Tins of 200g.

Tins of 1000g.

4/3 inc. Tax

14/2 inc. Tax

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Enquiries to: }
Medical Department } **75a HIGH STREET, RUISLIP**
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RUISLIP 3882

Because

of the acute shortage of fiberite cases we are delivering Andrews loose wherever possible.

We realise that this involves some of our customers in extra work and a certain amount of inconvenience, and we offer our sincere thanks for their kind co-operation in this matter.

If you have any fiberite cases on hand, please keep them till our representative calls, when he will arrange for their collection. Thank you again!



ANDREWS LIVER SALT

*The Ideal
Tonic Laxative*

SCOTT & TURNER LTD.
Andrews House, Newcastle-upon-Tyne, 2

T2

Cod Liver Oil in nutrition

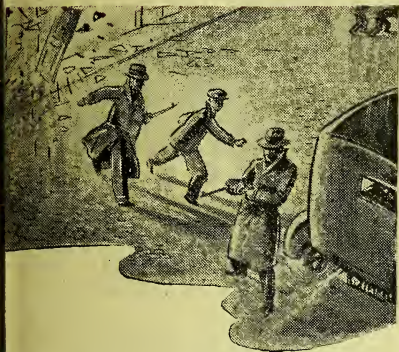
Before the war leading Medical opinion at home and abroad agreed that even the daily teaspoonful of Cod Liver Oil was needed to supplement the diets of infants, children, adolescents, and nursing and expectant mothers. The pre-war *Report on the Physiological Bases of Nutrition*, 1936, setting down these conclusions and recommendations endorsed by our own Ministry of Health and the British Medical Research Council.

Since the outbreak of the war the Ministry of Food have taken steps, with their Cod Liver Oil Distribution Scheme, to ensure that adequate supplies are to-day within the reach of expectant mothers and young children.

But the Ministry of Food Scheme needs the active co-operation and support of the Pharmaceutical Profession in recommending mothers to take advantage of these facilities and in getting them to appreciate the importance and value of Cod Liver Oil in infant care and throughout childhood and adolescence.

For those outside the scheme, and for those who prefer freedom of choice, Seven Seas pure Cod Liver Oil is available in all chemists' shops throughout the country. There is no shortage of Seven Seas and its quality and purity remain unimpaired. The Pharmaceutical Profession is, however, reminded that orders should be placed at two or three months ahead of actual need to overcome the difficulties of packing and delivery greater than ever before.

Issued by British Cod Liver Oil Producers
(Hull) Ltd., St. Andrew's Dock, Hull



Fifth Column !



Disease-producing germs — omnipresent enemy agents — ever-ready to sabotage the delicate mechanisms of the human organism! Lurking notably in the nasal passages, capable of producing local or systemic infections.

The Karsodrine Inhaler assists in maintaining a germ-resistant state of the nasal mucosa by its rapid and marked decongesting effect. Reaching the farthest recesses of the nose and accessory sinuses, the volatile so-constrictor in Karsodrine ensures a free way with maximal drainage of secretions. Employed early in head colds, the Karsodrine inhaler will often abort, or will generally minimise, their development, and so help to prevent unpleasant sequelae, such as sinusitis. With one puff only to remove, the Karsodrine Inhaler is most simple to use.

Retail Price 1/6 (Inc. Tax)



FORMULA: Amphetamine, 0.330 grm.; Cineole, 0.993 grm.; Ol. Citronell, 0.26 grm.; Methyl Salicylate, 0.023 grm.; Ol. Eucalypti, 0.005 grm.; Menthol, 0.049 grm.; Ol. Eucalypt, 0.089 grm.

Apart from its assured efficacy the Karsodrine Inhaler is an excellent financial proposition. The Retail Price is 1/6d. (inc. tax), which yields up to 5/2d. per dozen profit. This applies equally to small quantities if ordered with other "Griffiths Hughes" products.

GRIFFITHS HUGHES
LIMITED



ADELPHI, SALFORD, 3,
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"OXOID"

The word "OXOID" is the trade mark of OXO Ltd., and is used in connection with their therapeutical preparations both in tablet and fluid extract form.

ORGANO-THERAPEUTICAL PRODUCTS

OXO LABORATORY PREPARATIONS

VITAMINS

"OXOID" Brand

VITAMIN 'B'

Tablets and Ampoules

For the treatment of Polyneuritis, Neuralgia, Sciatica, Nervous Debility, Loss of Appetite, Gastric Intestinal Disorders, &c. Specially useful in cases of B₁ deficiency in Pregnancy and Lactation.

In bottles of 25, 100, 250 and 500 tablets of 1 mg. and 3 mg. Also supplied in ampoules of 5 mg. and 25 mg.

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VITAMINS 'A' & 'D'

Capsules

A safeguard against infection and a prophylactic against the Common Cold. Also prescribed for rapid adaptation of vision in semi-darkness. Supplies anti-rachitic or "Sunshine" vitamin during Pregnancy and Lactation, or for Infants.

In tins of 25 Capsules.

OXO LIMITED, Thames House, London.E.C.4



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NEW YORK

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Chemicals of every description

BUENOS AIRES

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Vikelp & Nutrition

Most chemists and pharmacists well know that the underlying cause of most Rundown, Nervous conditions and Deficiency diseases is Mineral and Vitamin deficiency.

In such cases VIKELP supplies the need for a sure and certain corrective. Each tablet contains 10 essential Mineral Salts—i.e.

Calcium	Phosphorus
Iron	Copper
Iodine	Magnesium
Sulphur	Potassium
Sodium	Chlorine

and, in addition, **Vitamin B₁**

Here is a perfectly balanced combination of all the elements necessary for complete remineralisation of the system. You can recommend VIKELP with every confidence. It is GENUINE—it is ethical—it is P.A.T.A.

HEALTH PRODUCTS LABORATORIES LTD.
128-134 Baker Street, London, W.1

50 Years' Test—

has proved the value



of



GET YOUR CUSTOMER TO TRY IT!

Retail price (including tax) 1/8

(Wholesale terms 12/- doz. Tax 2/- doz.)

LOFTHOUSE & SALTMER, LIMITED, HULL

INTERNATIONAL CHEM. CO. LD.

REVISED CONTENTS OF STANDARD PARCELS

OWING to shortage of labour and packing materials (and in order to comply with the Government's demand for utmost economy), we have been compelled to restrict the direct supply of our four main products to pre-packed parcels only. To meet the requests of a number of our customers, we have recently revised our original parcels to the contents shown below. Retailers requiring assortments other than these can obtain from their Wholesalers.

The minimum for a direct order remains at £5, which can be made up by parcel 'A'; or by any two of parcels 'B' to 'O'; or by any one of 'B' to 'O' plus a selection of our other preparations, such as Alkia Saltrates, Bisurids, Nemakol and Nemolin. Toilet lines may also be included to the value of your quota.

Co-operation allowances: On orders of £5.....7½% £10.....10%

A	1 doz. 1/5 Bismag Powder	...	12	0
	½ " 2/10 " "	...	12	0
	2 " 1/5 " Tablets	...	1	4
	1 " 2/10 " "	...	1	4
	1 " 1/9 Pineate Honey Cough-Syrup	...	13	9
	1 " 2/3 Limestone Phosphate	...	18	0
	1 " 1/5 Freezone Corn Remover	...	11	3
			£5	15. 0
	Purchase Tax on all goods and on bonus	...	1	1
			£6	16. 1


B	3 doz. 1/5 Bismag Powder	...	1	16	0
	1 " 2/10 " "	...	1	4	0
			£3	0	0
	Purchase Tax on above and on bonus	...	11	8	
			£3	11	8

C	3 doz. 1/5 Bismag Tablets	...	1	16	0
	1 " 2/10 " "	...	1	4	0
			£3	0	0
	Purchase Tax on above and on bonus	...	11	8	
			£3	11	8

D	1 doz. 1/5 Bismag Powder	...	12	0
	2 " 1/5 " Tablets	...	1	4
	1 " 2/10 " "	...	1	4
			£3	0
	Purchase Tax on above and on bonus	...	11	8
			£3	11

E	1 doz. 1/5 Bismag Powder	...	12	0
また	" 2/10 "	...	12	0
2	" 1/5 " Tablets	...	1	4
また	" 2/10 "	...	12	0
			£3	0
	Purchase Tax on above and on bonus	... ..	11	8
			£3	11

F	1 doz. 2/10 Bismag Powder	...	1	4	0
	½ " 2/10 " Tablets	...	1	16	0
			£3	0	0
	Purchase Tax on above and on bonus	...	11	8	
			£3	11	8

	1½ doz. 1/5 Bismag Powder	...	18	0
	3 „ 1/5 „ Tablets	...	1	16
			£2	14
	Purchase Tax on above and on bonus	... ..	10	6
			£3	4

J	2 doz. 1/5 Freezone Corn Remover	...	1	2	6
	1 " 2/3 Limestone Phosphate	...	18	0	
	1 " 1/9 Pineate Honey Cough-Syrup	...	13	9	
			£2	14	3
	Purchase Tax	...	9	0	
			£3	3	3

K	4 doz. 1/9 Pineate Honey Cough-Syrup	...	2	15	0
	Purchase Tax	...	9	2	
			£3	4	2

L	6 doz. 1/5 Freezone Corn Remover	...	3	7	6
	Purchase Tax	...	11	3	
			£3	18	9

N	2 doz. 1/5 Freezone Corn Remover	...	1	2	6
	2 " 1/9 Pineate Honey Cough-Syrup	...	1	7	6
			£2	10	0
	Purchase Tax	...	8	4	
			£2	18	4

O	3 doz. 2/3 Limestone Phosphate	...	2	14	0
	Purchase Tax	...	9	0	
			£3	3	0

Above consumer prices include Purchase Tax

BONUS TERMS: 14 to the dozen on 'Bisurated' Magnesia Powder and Tablets in return for fourteen days' window display. 'Bisurated' Magnesia Powder—Bonus in Mint Powder. 'Bisurated' Magnesia Tablets—Bonus in Tablets.

All goods sent Carriage Paid in returnable boxes

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Limited supplies again available

M.O. is an emulsion of magnesium and pure liquid paraffin only, whose therapeutic efficiency is magnified many times by re-arrangement of their molecular relationship.

Whilst M.O. is a universal laxative and antacid, its peculiar "blandness" suggests its election whenever the avoidance of irritation is essential.

Chief indications :

Constipation . . Pregnancy,
Infancy and Age . .
Flatulence . . Toxaemias . .
Hyperemesis . . Nausea . .
Hyperacidity . . Vomiting . .
Acid Eructations . .
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SURREY.

FARNHAM 5796

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50-52 CASTLE LANE, BOURNEMOUTH

to be Sole Distributors and manufacturers of

LECIFERRIN TONIC FOOD

for Great Britain and Eire

Now a  line. Also **P.A.T.A.**

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PLEASE NOTE—Generous Terms Direct through usual wholesalers

Small size 2/9 (inc. tax), costs 18/- plus tax

Large size 4/7 (inc. tax), costs 30/- plus tax

Discount on singles = 40%

Bonus Terms:

Small Parcel

1 doz. 2/9 Leciferrin, bonus 13 to doz.
Direct 5% Cash 7 days

Large Parcel

2 doz. Leciferrin. 1 doz. 4/7 Leciferrin, bonus 1 to dozen. Less 10% through wholesalers
Direct 5% Cash 7 days

STILL THE BEST REMEDY FOR

ASTHMA

**Dr. SINGHA
ASTHMA
TABLETS**

A LONDON CHEMIST writes:
"I am delighted to recommend Dr. Singha Tablets to my Asthma-suffering customers, as I am convinced there is no remedy to equal it."

Prices: 1/6, 5/-, 12/-, 20/-
(exclusive of Purchase Tax)

THE DR. SINGHA CO., LTD.
CAERNARVON
NORTH WALES



There is no sitting on the wall—or the shelves—about KORAY. No sooner is it in stock than it is into the customer's pocket. KORAY advertising KORAY efficacy—half as much again of the pain-killing ingredient—put KORAY right in the front of its field. Stock and display KORAY. Stick to KORAY'S "look ahead" policy, KORAY is still available packed in its original play containers. These cannot be repeated, so order now.

IMPORTANT NOTICE. KORAY show material cannot be offered if present supplies are exhausted. Please make the most of what you have and pass to salvage any that becomes too damaged to use. Paper is in short supply.

KORAY LIMITED, LONDON & BLACKPOOL

KORAY

KILLS PAIN QUICKER

Illustrated price lists of our products are available. Please send 1d. postage stamp to conform with Government requirements to Koray, Ltd., Blackpool.

KORAY is the Registered Trade Mark for the Specific Analgesic Anti-pyretic Tablets manufactured by Koray, Ltd.



NATIONAL ADVERTISING for this excellent and PROVED PRODUCT



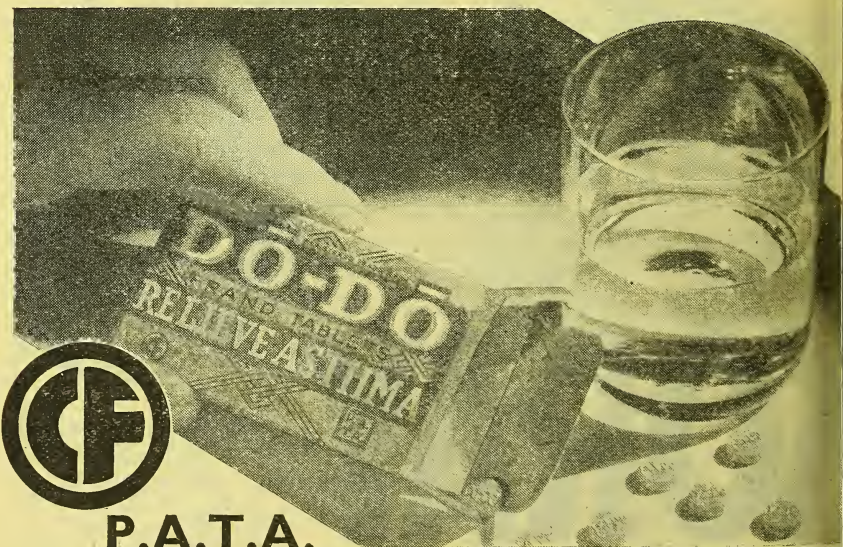
The therapeutic value and purity of Vironita justify universal trade support. The formula fulfils the special requirements of an independent consulting Scientific and Analytical Staff. Our advertising in the National and Provincial Press including the *Daily Mail*, *Sunday Dispatch*, *Sunday People*, *Daily Herald* and *John Bull*, in addition to outdoor publicity, ensures a quick turnover of stock.

All stocks are warranted to comply with the Food and Drug Act and all Statutory requirements.

M. CALTHORPE AND COMPANY
VINYARD WORKS, OSSETT, YORKS

VIRONITA

Obtainable from your wholesaler



P.A.T.A.

The Largest Selling Asthma Tablet in the World—for the best of reasons
International Laboratories Ltd., Charlbury, Oxford

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Pursuing our policy of rationing available supplies for datum year purchasers, this notice applies only to those situated in areas where we cannot service through our distributor-representatives and who have received no allocation of Therapeutic Dose Medicated Tablets since September 1, 1942

ONE UNIT SUPPLY (ONLY)

if received within 7 days, of

Simpkin's

COMPOUND THYMOL TABLETS

Owing to call-up of the majority of clerical staff we ask for cheque with order to save labour.

	£	s.	d.
6 lb. at 3/4 per lb. :	..	1	0
Purchase Tax .. :	..	3	4
1 tin returnable .. :	..	1	0
	£1	4	4

A. L. SIMPKIN & CO. LTD.

Pharmaceutical Laboratories, Sheffield, 6
Sole Distributors of RHUMUV and
MEDOPHYLL Tablets

DULCIN

Manufacturers: Pal Chemicals Ltd.

All enquiries to

SOLE DISTRIBUTORS

Roney & Co.

16 Grosvenor Place, S.W.1

Telephone: SLOane 2636

Telegrams: ELRONEY, Knights, London

WILSON MEATS LTD.

91/93 Charterhouse Street, London, E.C.1
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Importers of

"Certified"
PURE EXTRACT
OF BEEF

In
1½, 2½
& 3½ oz.
Jars

1 lb
½, 1, 2, 4,
& 50 lb.
Tins

PRICES ON APPLICATION

Used regularly is invaluable in warding off colds, influenza, etc. Is very sustaining during illness, and a wonderful stimulant in convalescence.

'ASPRO' PACKING CHANGES

① 5's & 10's CARTONS DISCONTINUED

To comply with the present national requirements of paper economy and the new limitation to two packings the use of cartons for 'ASPRO' 5's and 10's is discontinued. An attractive display box containing six dozen loose tapes of five tablets each replaces the cartons. Prices are unaltered. The tapes retail at

One tape, 5 tablets, **3½d.**

Two tapes, 10 tablets, **6½d.**

NOTE—The display box contains 6 dozen tapes as we are no longer able to offer a 3 dozen showbox.

**NO CHANGE IN BONUS
NO CHANGE IN RETAILER'S PROFIT**

② 'ASPRO' NOW AVAILABLE in alternative Wrappings "SEALTITE" or "SANITAPE"

In addition to the world-famous "Sanitape" 'ASPRO' is now available in the wonderful new "Sealtite," hermetically sealed, moisture-proof, transparent cellulose wrapping. ONLY 'ASPRO' IS OBTAINABLE IN "SEALTITE," which is the latest development in hygienic wrapping for a medicinal product.

'ASPRO' Stocks now being issued from our factory may be wrapped in "SEALTITE" or "SANITAPE" or both.

War-time exigencies in our factory necessitate our using "Sealtite" and "Sanitape" at one and the same time. The 5's and 10's display boxes you are now receiving may therefore contain 'ASPRO' wrapped in either or both of these modern hygienic wrappings.

THE 27's PACK ("Sanitaped" 'ASPRO' in cartons) IS UNCHANGED AND WILL BE CONTINUED.

THE 60's PACK IS DISCONTINUED FROM JANUARY, 1943

The above changes do not apply to Northern Ireland and Eire

ASPRO
TRADE MARK

MADE IN ENGLAND BY
ASPRO LTD. Slough, Bucks

Don't run out of
CURICONES
before re-ordering

Your wholesaler
is very short of staff
and cannot attend to
orders as promptly
as previously.

Remember he is as
short-handed as you.

NOW only 2 sizes

CURICONES

Small Size **5/-** Large Size **24/-**

P.A.T.A. inc. showing 33 $\frac{1}{3}$ % profit

ORDER THROUGH YOUR
USUAL WHOLESALER

STEPHEN MATTHEWS & CO., LTD
19-21 Farringdon Street, London, E.C.4

CONTROL OF HEAD LICE

Nits and Head Lice can now be dealt with quickly and economically without unpleasant evidence of treatment.

An approved formula now being used extensively by Public Health Authorities.

Semprolia INSECTICIDE

for the Control of Nits and Head Lice



SEMPROLIA IS IN URGENT AND
RAPIDLY INCREASING DEMAND.

Retail (2-oz.) 1/1 $\frac{1}{2}$ d. including P.T. List 8/- doz.
Packed in 2-dozen outers.

STEMCO LTD., 128, Albert Street, London, N.

**HERE'S THE EXTRA
nourishment war
workers need...**

Prepared in specially assimilable form and available in adequate supply, Jenner's offers a fine malted and sweetened food proved invaluable for over 50 years for tired workers, invalid digestions, old people, nursing mothers and infants.



JENNER'S Malted food

SWEETENED

Malt and
Chocolate Flavour

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The CHEMIST AND DRUGGIST SUPPLEMENT

This Supplement is inserted in every copy of The Chemist & Druggist

MARCH 20
1943

28, 15, LX STREET, LONDON, W.C.2

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County Offices, Lincoln.

March 8th, 1943.

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JOHN E. LIGHTBURN,

Clerk of the County Council.

County Hall, Chelmsford.

March 12, 1943.

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